HITACHI

SERVICE MANUAL

YK	No.0364E

CU5001B CU5002K
CU5003D CU4601B/K

NTSC | VP8X2 Chassis

R/C : CLU-910GR

The CU5001B/CU5002K/CU5003D/CU4601B/K are the same as the CU5000K/CU4600B excepting that their Remote control transmitter, Lenses and Screen frame are different.

So, when servicing these models, use this manual together with CU5000K/CU4600B (No. 0312E) service manual.

For the CU5002K and CU4601B/K, the cabinet and screen frame are changed during production. The cabinets and frames before the change and after the change are not interchangeable. Be careful. (Refer to Table 1.)

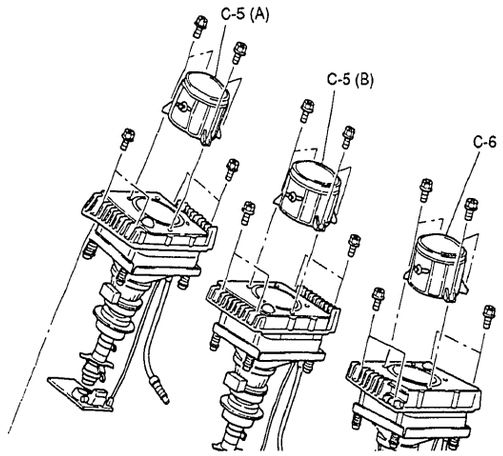
SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PROJECTION COLOR TELEVISION

May 1990 YOKOHAMA WORKS

REPLACEMENT PARTS LIST

SYMBOL No.	PARTS No.	DESCRIPTION
E301	2573411	REMOTE CONTROL TRANSMITTER CLU-910GR (HCPA)
MECHANICAL PARTS (1/3) (Refer to page 65)		
A-1	3708033	SCREEN FRAME (H) (CU5003D)
A-1	3708033	SCREEN FRAME (H) (CU5002K) (Before change)
A-1	3103184	SCREEN FRAME 50U (S) (CU5002K) (After change)
A-1	3103185	SCREEN FRAME 50L (S) (CU5002K) (After change)
A-1	3816241	SCREEN FRAME (H) (CU4601B/K) (Before change)
A-1	3103187	SCREEN FRAME 46U (B) (CU4601B/K) (After change)
A-1	3103188	SCREEN FRAME 46L (B) (CU4601B/K) (After change)
A-1	3103181	SCREEN FRAME 50U (B) (CU5001B)
A-1	3103182	SCREEN FRAME 50L (B) (CU5001B)
A-3	3708034	SCREEN FRAME (V) (CU5003D)
A-3	3708034	SCREEN FRAME (V) (CU5002K) (Before change)
A-3	3103186	SCREEN FRAME 50V (S) (CU5002K) (After change)
A-3	3816242	SCREEN FRAME (V) (CU4601B/K) (Before change)
A-3	3103189	SCREEN FRAME 46V (B) (CU4601B/K) (After change)
A-3	3103183	SCREEN FRAME 50V (B) (CU5001B)
A-17	3122621	CABINET ASS'Y (HCPA) (CU5001B)
A-17	3119101	CABINET ASS'Y (HCPA) (CU5002K) (Before change)
A-17	3119103	CABINET ASS'Y (HCPA) (CU5002K) (After change)
A-17	3119102	CABINET ASS'Y (HCPA) (CU5003D)
A-17	3119111	CABINET ASS'Y (HCPA) (CU4601B/K) (Before change)
A-17	3119112	CABINET ASS'Y (HCPA) (CU4601B/K) (After change)
MECHANICAL PARTS (3/3) (Refer to page 67)		
C-5 (A)	3393226	LENS SASS SP DC-R
C-5 (B)	3393225	LENS SASS SP DC-G
C-6	3393227	LENS SASS SP DC-B



■ Change of cabinet and screen frame (CU5002K and CU4601B/K only)

The cabinets and screen frames before and after the change are not interchangeable. Use the screen frame before the change with the cabinet before the change. Use the screen frame after the change with the cabinet after the change.
The change is done from the time shown below.

CU5002K ..... From production during July (Serial No. W0G...)
CU4601B/K ..... From production during July (Serial No. W0G...)

1. Details of change

Table 1

MODEL	DESCRIPTION	PARTS No.	
		Before change	After change
CU5002K	CABINET ASS'Y (HCPA)	3119101	3119103
	SCREEN FRAME (H)	3708033	–
	SCREEN FRAME 50U (S)	–	3103184
	SCREEN FRAME 50L (S)	–	3103185
	SCREEN FRAME (V)	3708034	–
	SCREEN FRAME 50V (S)	–	3103186
CU4601B/K	CABINET ASS'Y (HCPA)	3119111	3119112
	SCREEN FRAME (H)	3816241	–
	SCREEN FRAME 46U (B)	–	3103187
	SCREEN FRAME 46L (B)	–	3103188
	SCREEN FRAME (V)	3816242	–
	SCREEN FRAME 46V (B)	–	3103189

2. How to remove the screen

The procedure before the change is the same as CU5000K/CU4600B. After changing the cabinet and screen frame, remove the screen as follows.

1. Remove the speaker net.
2. Remove 4 screws (1) shown in Fig. 1.
3. After removing 4 screws (2) shown in Fig. 1, the frame mounting metal which fixes the screen frame can be removed.
4. Pull the lower side of the screen toward the front and then pull it downward. The screen can now be removed.

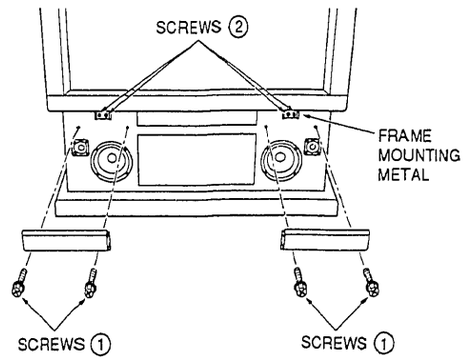


Fig. 1

HITACHI

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HITACHI
SERVICE MANUAL

NTSC | VP8X2 Chassis

YK | No.0312E

CU5000K
CU4600B

R/C : CLU-790GR

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CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by ⚠ on schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing this chassis, it is important that the service technician read and follow the "Safety Precautions" and "Product Safety Notices" in this Service Manual.

* For continued x-radiation protection, replace picture tube with original type or Hitachi approved equivalent type.

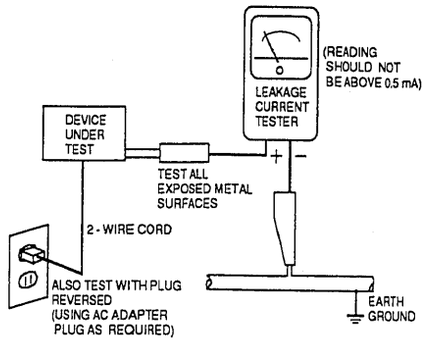
SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PROJECTION COLOR TELEVISION

October 1989 YOKOHAMA WORKS

SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to the following items:
   a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   c. **Antenna Cold Check** — With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   d. **Leakage Current Hot Check** — With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.


(READING SHOULD NOT BE ABOVE 0.5 mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

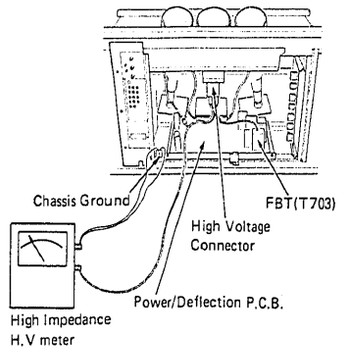
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

e. **High Voltage** — This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

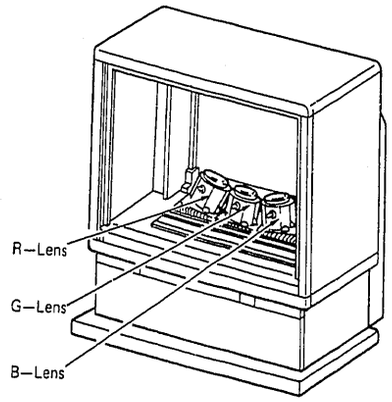
f. **Serviceman warning** — With minimum Black Level and Picture, operating high voltage in this receiver is lower than 33.6 kV. In case any component having influenced on high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than 33.6 kV.
To measure H.V. use a high impedance H.V. meter. Connect (–) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

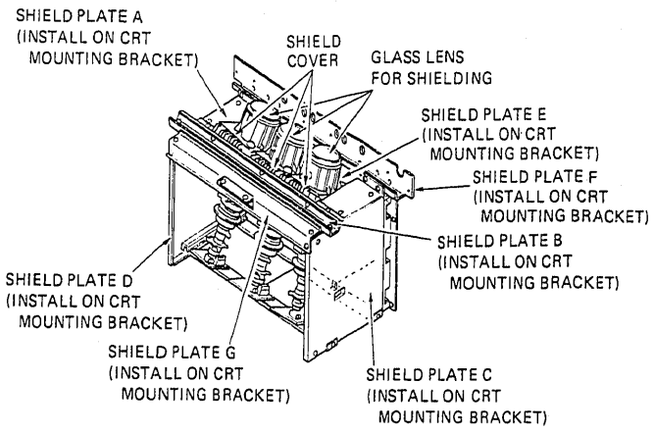
Note: Turn power switch off without fail before the connection with Anode button is made.



g. **X-radiation — TUBE:** The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation emissions.
For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.
When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

h. **X-radiation Shield —**
   1) This receiver is provided X-ray shield plates for the protection of X-radiation. Do not remove X-ray shield plates A, B, C, D, E, F, G and shield cover shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.
   2) To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.




SHIELD PLATE A (INSTALL ON CRT MOUNTING BRACKET)
SHIELD COVER
GLASS LENS FOR SHIELDING
SHIELD PLATE E (INSTALL ON CRT MOUNTING BRACKET)
SHIELD PLATE F (INSTALL ON CRT MOUNTING BRACKET)
SHIELD PLATE B (INSTALL ON CRT MOUNTING BRACKET)
SHIELD PLATE D (INSTALL ON CRT MOUNTING BRACKET)
SHIELD PLATE G (INSTALL ON CRT MOUNTING BRACKET)
SHIELD PLATE C (INSTALL ON CRT MOUNTING BRACKET)

Detailling X-radiation shields
Fig. 1

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** — Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to, circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** — The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning — a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b.** Some TV receiver chassis normally have 85 V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. **c.** Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts — be sure that leads and components do not touch thermally hot parts, **c.** the AC supply, **d.** high voltage, and **e.** antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components, and between components and the printed-circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** — Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified Hitachi service data by shading on schematics and by a (⚠) in the parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of Service literature may be obtained at a normal charge from Hitachi.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 2 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 2 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
      Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
   The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed then the bleeder resistor is defective or the bleeder ground is disconnected.
3. Discharge the picture tubes anode at any of the R, G, or B outputs on the High Voltage distribution box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemical on or near this instrument or any of its assemblies.
5. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90% - 99% strength).
   Caution: This is a flammable mixture.
   Unless specified otherwise in these service data, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
9. Use with this instrument only the test fixtures specified in this service data.
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

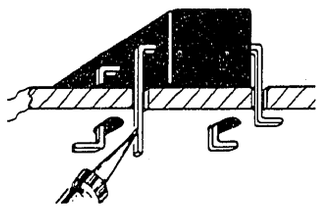
Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an antistatic, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron To Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas.)

"Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the circuit board.
4. Insert new transistor in circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.
2. Securely crimp leads of replacement component around stake 1/8 inch from top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off", the board. The following guidelines and procedures should be followed whenever this condition is encountered.

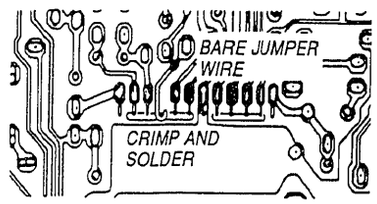
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern and is identified and illustrated in this service data in the section titled Safety Related Copper Pattern (see table of contents for page number). Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

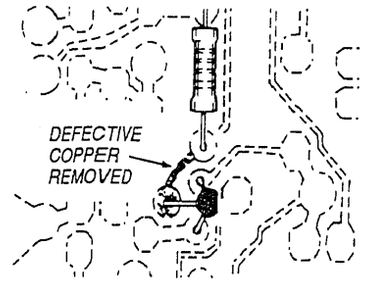


Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wirer from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wirer is dressed so that it does not touch components or sharp edges.

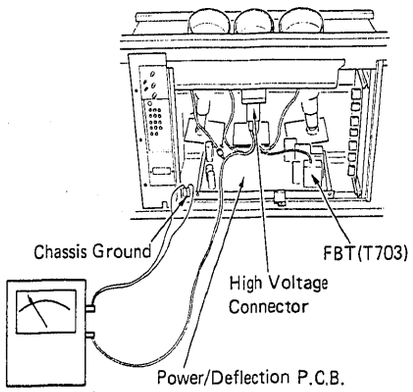
Frequency Synthesis (FS) Tuning Systems

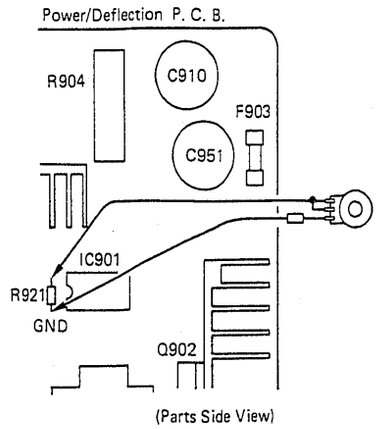
1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or reinserting FS tuning system modules.
2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.
3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

TECHNICAL CAUTIONS

High voltage limiter circuit operation check

1. Connect the high voltage voltmeter between the high voltage connector and chassis ground as shown Fig. 2.
2. Set the AC input voltage to 120V.
3. Set picture and black level control fully to + side (max.) of the on-screen indication.
4. Connect the jig as shown in Fig. 2 to power/deflection P.C.B.
5. Turn the 20 kΩ-B VR of the jig fully clockwise viewed from the knob side.
6. Turn on the set.
7. Gradually turn the 20 kΩ-B VR of the jig counterclockwise and check that the picture disappears when the high voltage is less than 38.8 kV.
8. Turn off the set immediately after checking that the picture disappears.
9. Remove the jig and voltmeter.





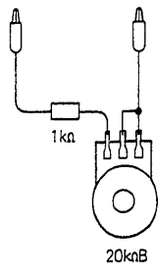


Fig. 2

SPECIFICATIONS

Model:	CU5000K/CU4600B
Screen Size:	50 inch — CU5000K 46 inch — CU4600B
CRT:	3 Liquid coolant type tubes (Red, Green, Blue) 80° deflection 6.7 inch. 180CGB22R/G/B
Power Input:	120 Volts AC, 60Hz
Power Consumption:	298 Watts — Maximum 230 Watts — Operating
Antenna Impedance:	75 ohm Unbalanced VHF/UHF/CATV
Receiving Channel:	CH VHF 2 – 13 UHF 14 – 69 EXT. Mid (A – 5) – (A – 1), 4+ CATV Mid A – I CATV Super J – W CATV Hyper (W + 1) – (W + 28) CATV Ultra (W + 29) – (W + 84)
Intermediate Frequency:	Picture IF Carrier 45.75 MHz Sound IF Carrier 41.25 MHz Color Sub Carrier 42.17 MHz
Video Input:	1 Volt p-p 75 ohm
Video Output:	1 Volt p-p 75 ohm
Audio Input:	0.4 Volt rms, 40 k ohm
Audio Output:	0.4 Volt rms, 1 k ohm
Audio Output Power:	Front — 10 Watts rms per channel 8 ohm impedance. Rear — 5 Watts rms per channel 8 ohm impedance.
Anode Voltage:	32 kV (1.2 mA)
Brightness:	540 ft-L Nominal (Peak White) — CU4600B 460 ft-L Nominal (Peak White) — CU5000K
Speakers:	**CU5000K** 2 Woofers — 6 inch (16 cm) round. 2 Tweeters — 2 inch (5 cm) round. **CU4600B** 2 Woofers — 5 inch (12 cm) round. 2 Tweeters — 2 inch (5 cm) round.
Dimensions:	**CU5000K** Width ..... 116 cm Height ..... 132 cm Depth ..... 68 cm **CU4600B** Width ..... 108 cm Height ..... 124 cm Depth ..... 66 cm
Circuit Board Assemblies:	CPT (R) P.C.B. CPT (G) P.C.B. CPT (B) P.C.B. Surround P.C.B. Convergence Adj P.C.B. Control A P.C.B. Control B P.C.B. SP Terminal P.C.B. Power/Deflection P.C.B. Signal P.C.B. Convergence/Focus P.C.B. Sub Power Supply P.C.B.

CIRCUIT PROTECTION

Fuse (or Device)	Circuit Protected	Physical Location
F9001 5.0A-125V (AC)	Main Fuse	Sub Power Supply Circuit Board
F903 4.0A-125V (DC)	DC Main Fuse	Power/Deflection Circuit Board
F904 4.0A-125V (DC)	Audio Output Circuit	Power/Deflection Circuit Board
F905 1.6A-125V (DC)	Deflection Circuit	Power/Deflection Circuit Board

GENERAL INFORMATION

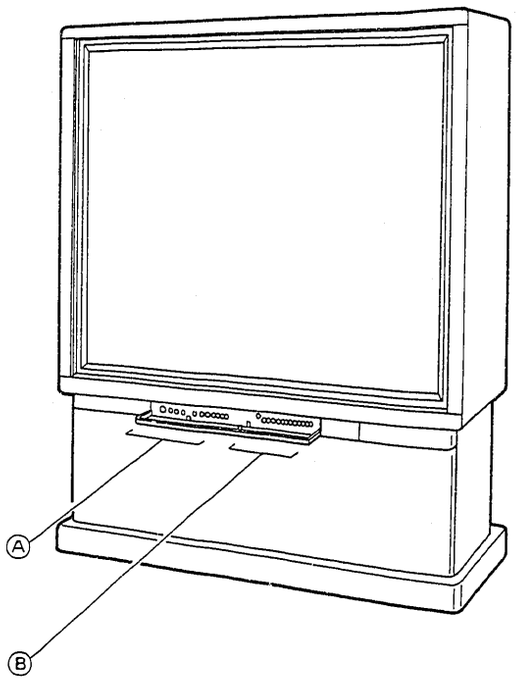
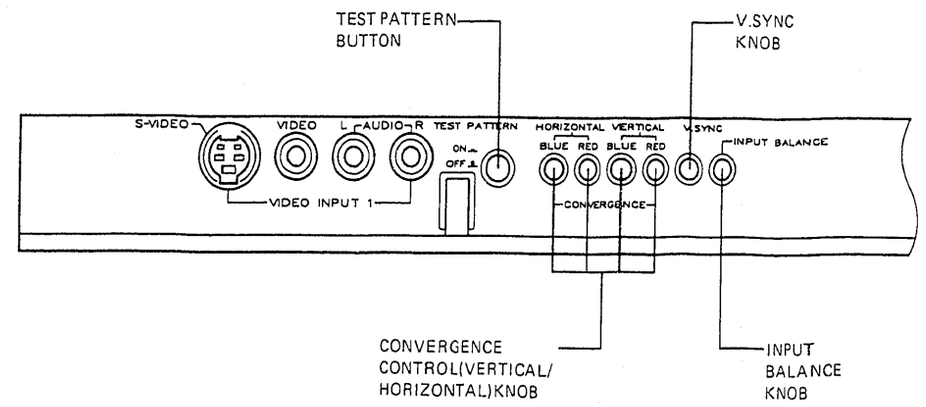


Fig. 3

Ⓐ



Ⓑ

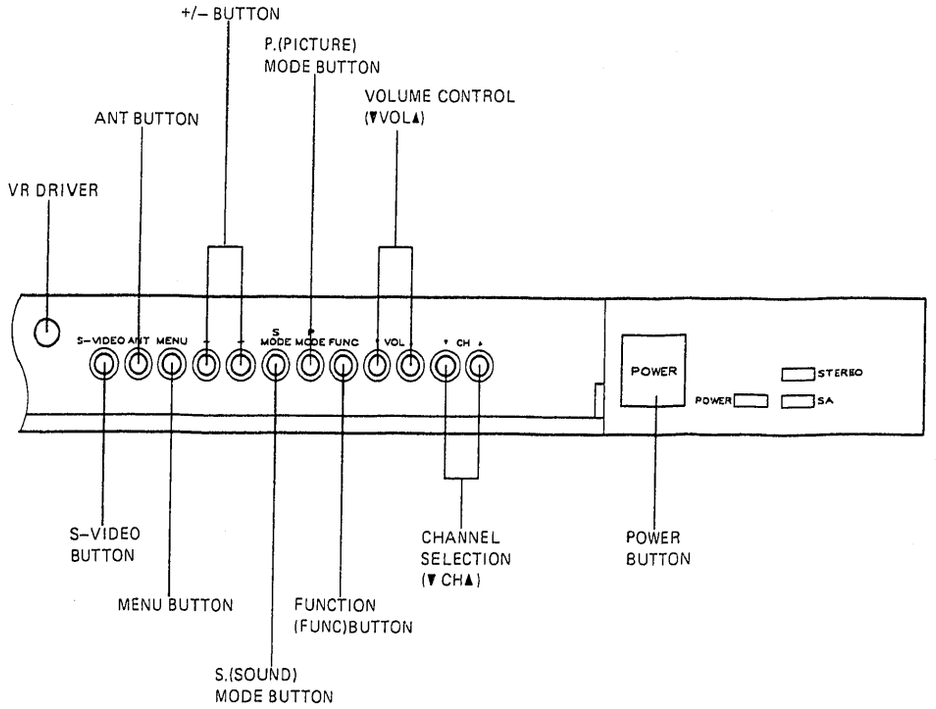


Fig. 4 Control Panel

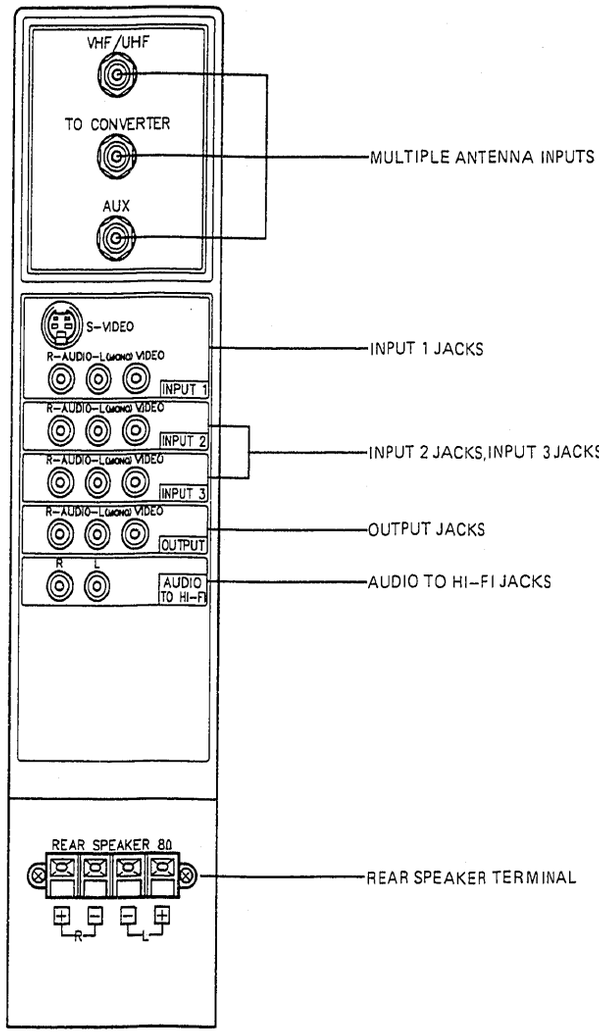
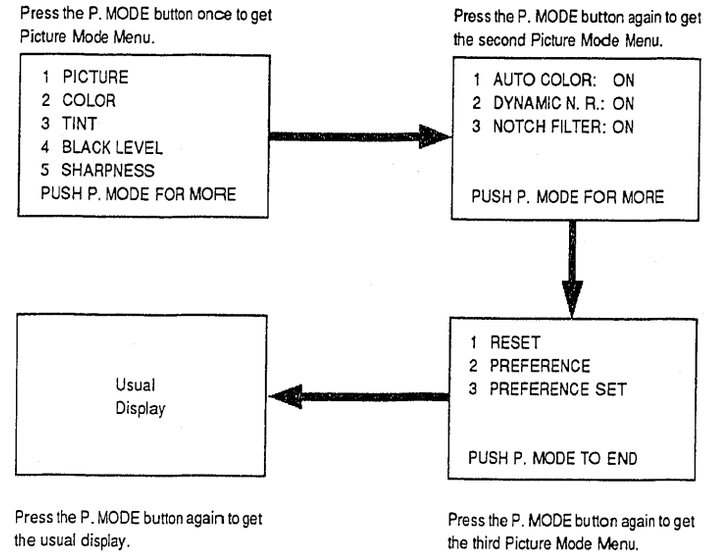


Fig. 5 Monitor Connection Panel

ADJUSTING FOR PICTURE AND SOUND

Adjusting Picture Controls

1. **P. MODE button**
   By repeatedly pressing the P. MODE button, one of three menu pages will appear on screen. With these screens you can select adjustment functions.

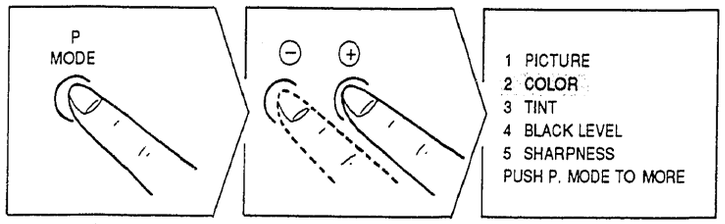

Press the P. MODE button once to get Picture Mode Menu.
1 PICTURE
2 COLOR
3 TINT
4 BLACK LEVEL
5 SHARPNESS
PUSH P. MODE FOR MORE
Press the P. MODE button again to get the second Picture Mode Menu.
1 AUTO COLOR: ON
2 DYNAMIC N. R.: ON
3 NOTCH FILTER: ON
PUSH P. MODE FOR MORE
1 RESET
2 PREFERENCE
3 PREFERENCE SET
PUSH P. MODE TO END
Press the P. MODE button again to get the third Picture Mode Menu.
Usual Display
Press the P. MODE button again to get the usual display.

2. **Adjustment function selection**
   Press the P. MODE button continuously until required adjustment function is displayed and select it using the + (or –) button (or using the numeric buttons of the remote control unit). The color of the function selected is changed from light blue to green.

Example — "COLOR" adjustment

(1) Pressing the P. MODE button once displays the Picture Mode menu screen.

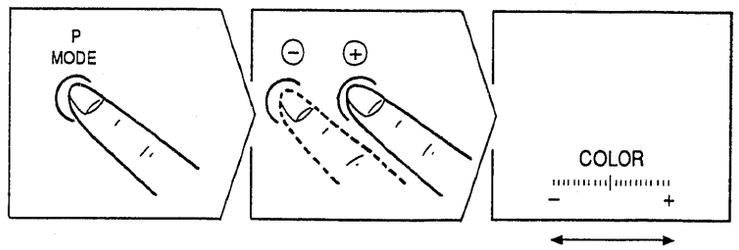
(2) Press the + (or –) button continuously until the display color of "COLOR" is changed from light blue to green. (This can be selected by pressing the "2" button of the remote control unit.)



This changes from light blue to green.

(3) Press the P. MODE button.

(4) "COLOR" adjustment can be done.
Perform adjustment using the + or – button.



- Press the – button repeatedly to decrease.
- Press the + button repeatedly to increase.

Note: The video menu will automatically disappear from the screen if you do not press "–" or "+" within 8 seconds.

Adjusting Sound Controls

1. S. MODE button

By repeatedly pressing the S. MODE button, one of three menu pages will appear on screen. With these screens you can select adjustment functions.

Press the S. MODE button once to get Sound Mode Menu.

```
1 BALANCE
2 BASS
3 TREBLE
4 REAR VOLUME

PUSH S. MODE FOR MORE
```

Press the S. MODE button again to get the second Sound Mode Menu.

```
1 SA SELECT:      MAIN
2 STEREO/MONO:    STEREO
3 SURROUND:       OFF
4 SPEAKERS:       ON

PUSH S. MODE FOR MORE
```

```
1 RESET
2 PREFERENCE
3 PREFERENCE SET

PUSH S. MODE TO END
```

Usual Display

Press the S. MODE button again to get the usual display.

Press the S. MODE button again to get the third Sound Mode Menu.

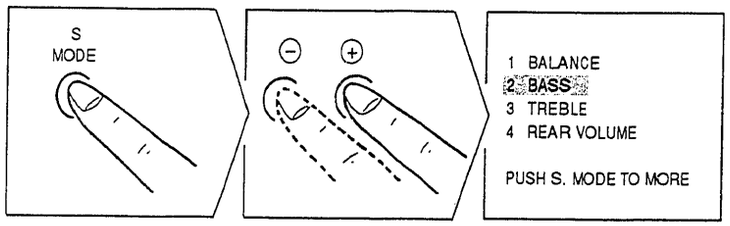
2. Adjustment function selection

Press the S. MODE button continuously until required adjustment function is displayed and select it using the + (or –) button (or using the numeric buttons of the remote control unit). The color of the function selected is changed from light blue to green.

Example — "BASS" adjustment

(1) Pressing the S. MODE button once displays the Sound Mode menu screen.

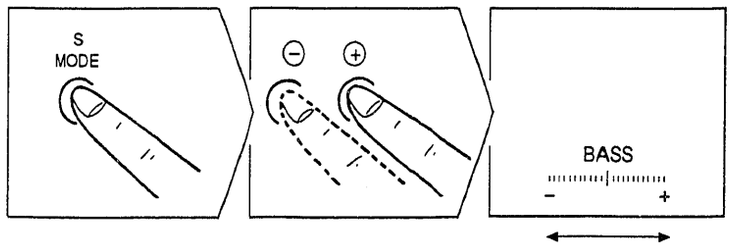
(2) Press the + (or –) button continuously until the display color of "BASS" is changed from light blue to green. (This can be selected by pressing the "2" button of the remote control unit.)



This changes from light blue to green.

(3) Press the S. MODE button.

(4) "BASS" adjustment can be done.
Perform adjustment using the + and − button.

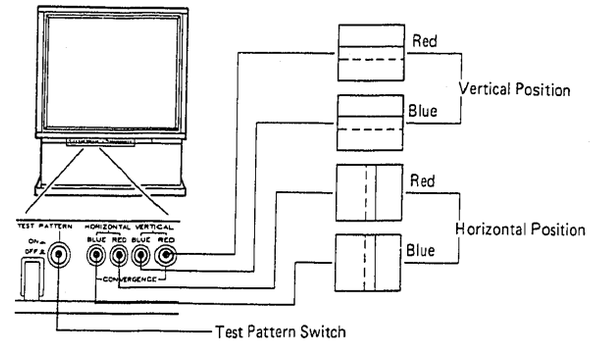


- Press the − button repeatedly to decrease.
- Press the + button repeatedly to increase.

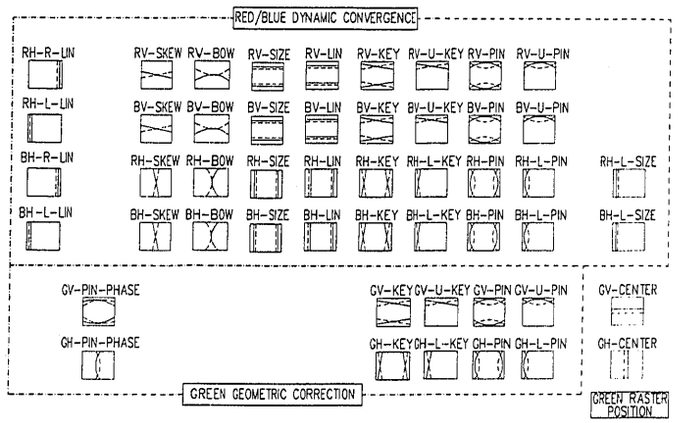
Note: The audio menu will automatically disappear from the screen if you do not press "−" or "+" within 8 seconds.

CONVERGENCE ADJUSTMENT

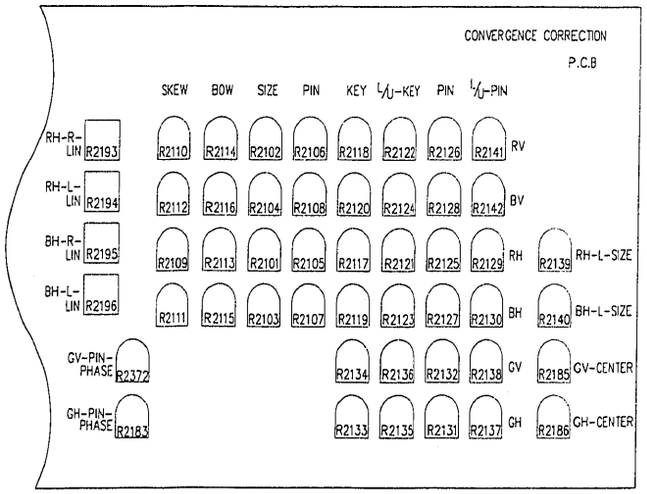
Static Convergence



Dynamic Convergence

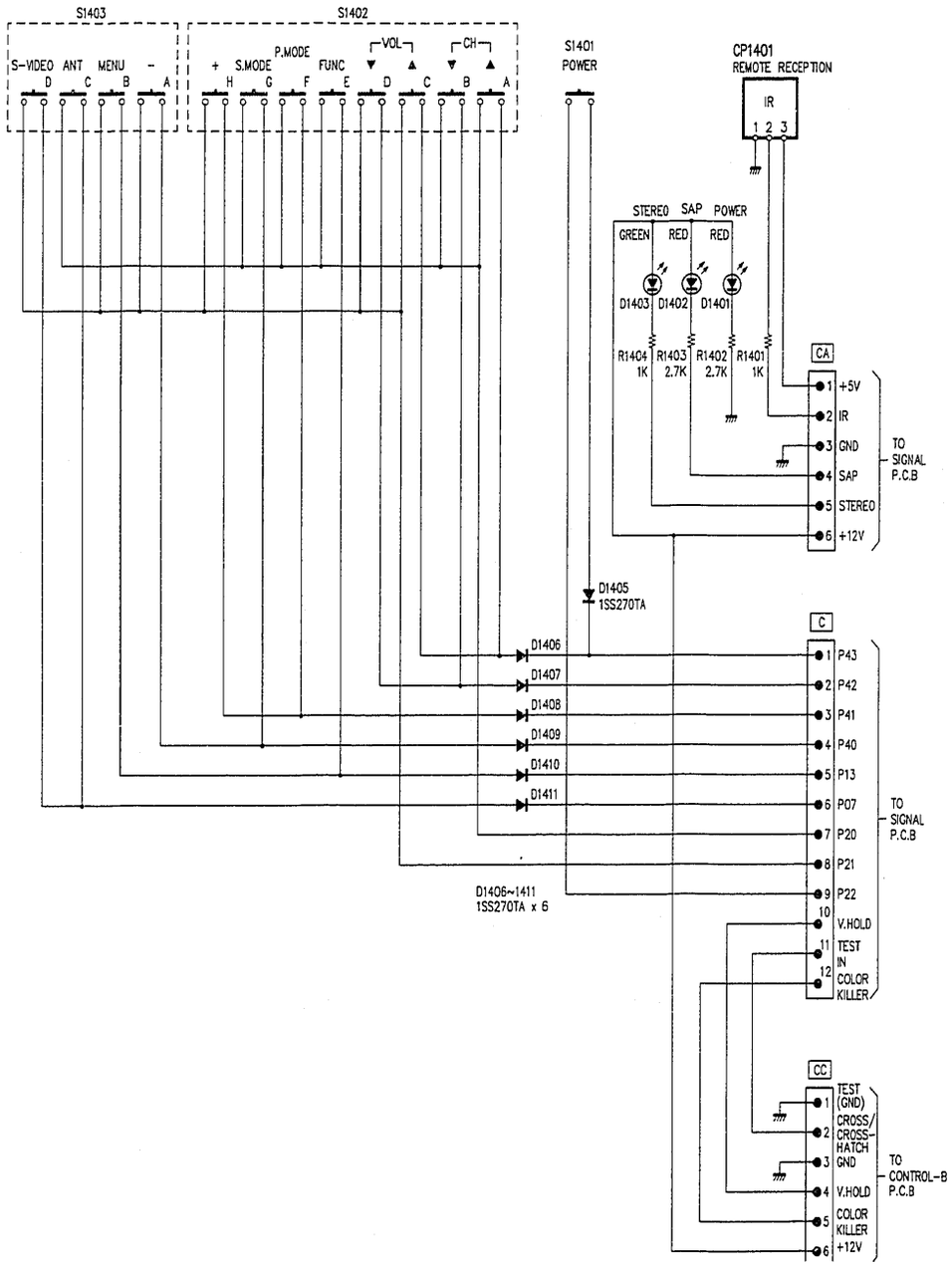


Layout of the Adjustment VR

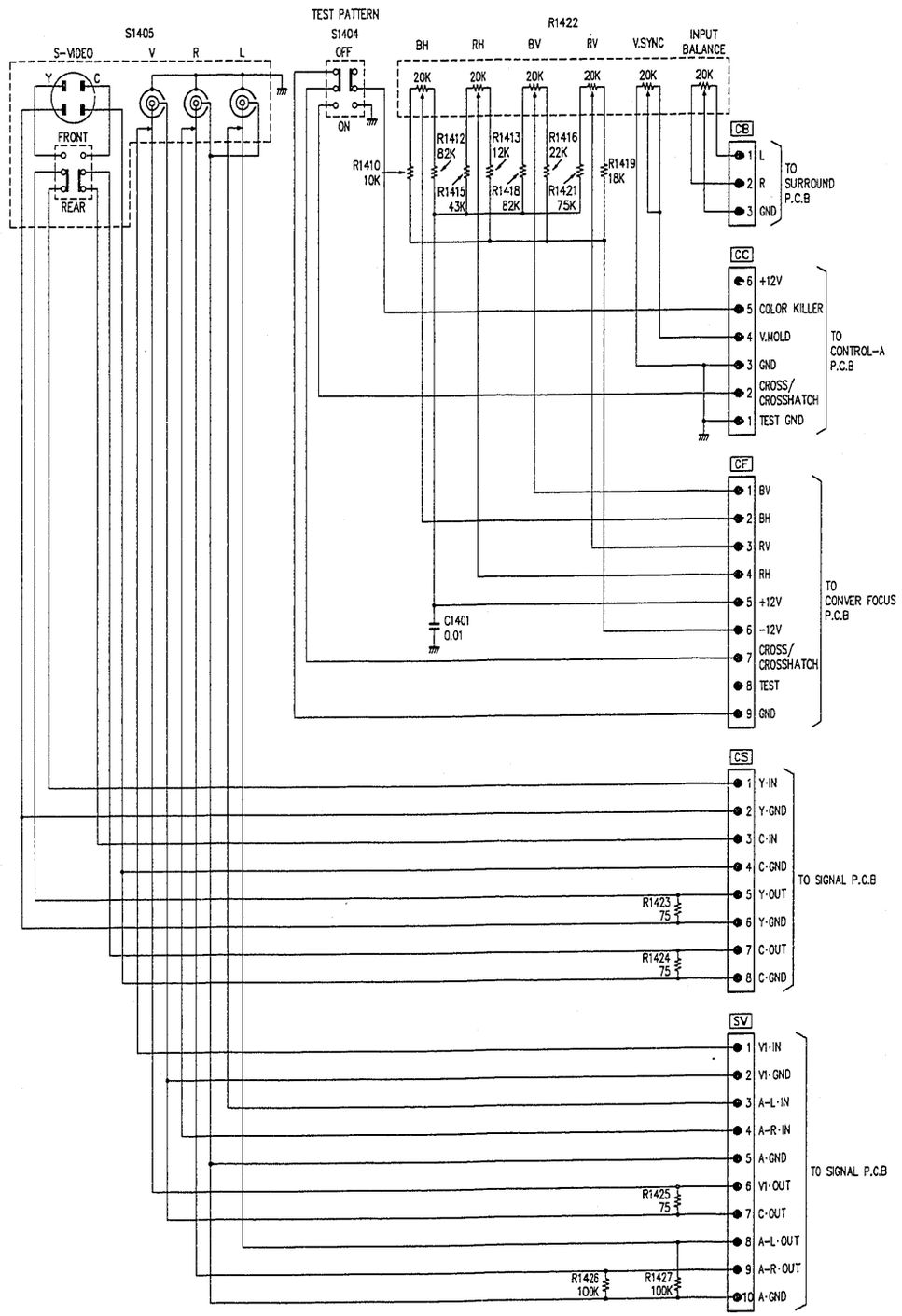


CIRCUIT DIAGRAM

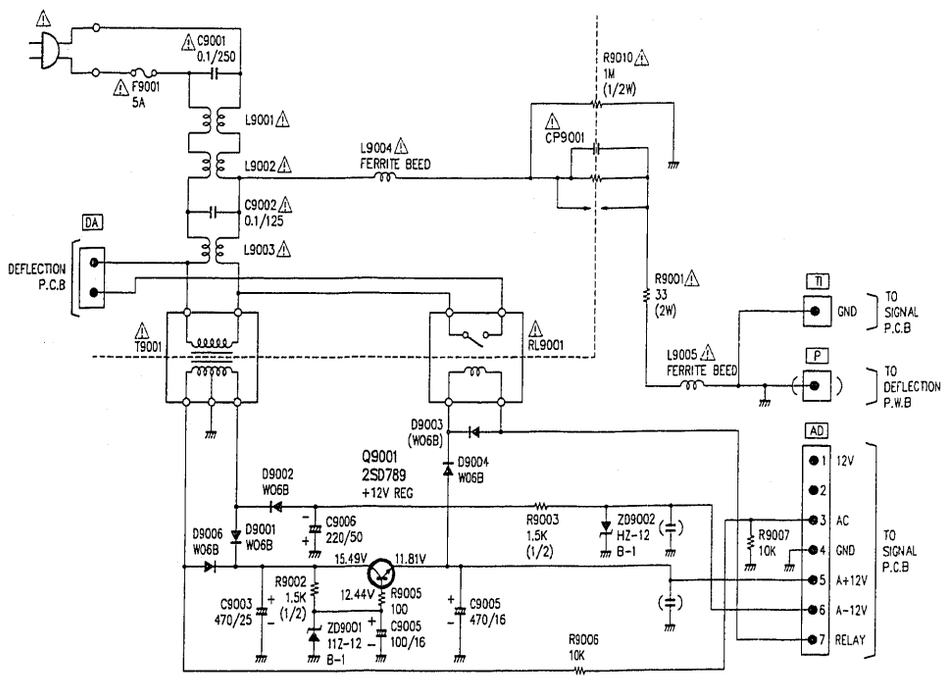
CONTROL (A) CIRCUIT DIAGRAM



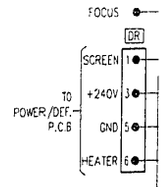
CONTROL (B) CIRCUIT DIAGRAM

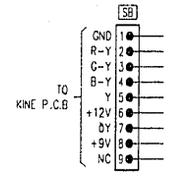


SUB POWER SUPPLY CIRCUIT DIAGRAM

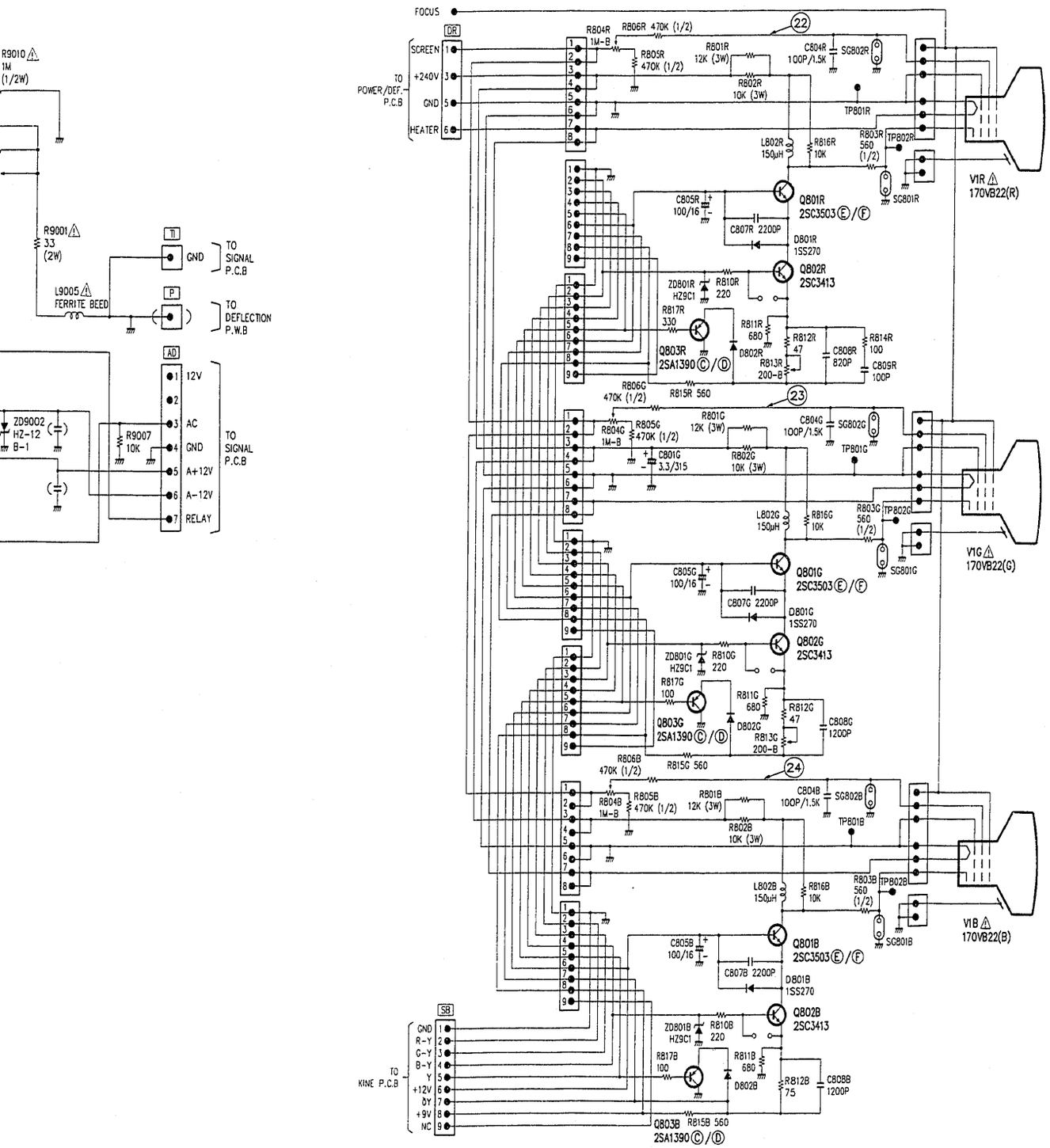


CPT CIRCUI





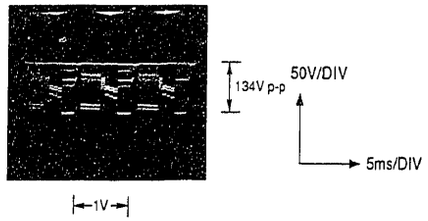
CPT CIRCUIT DIAGRAM



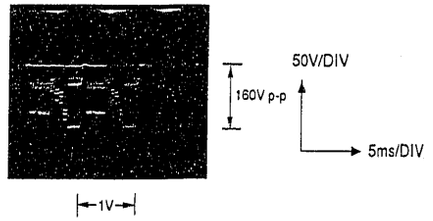
• WAVEFORMS

CPT P. C. Board

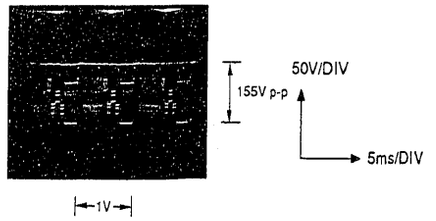
(22) R-CATHODE



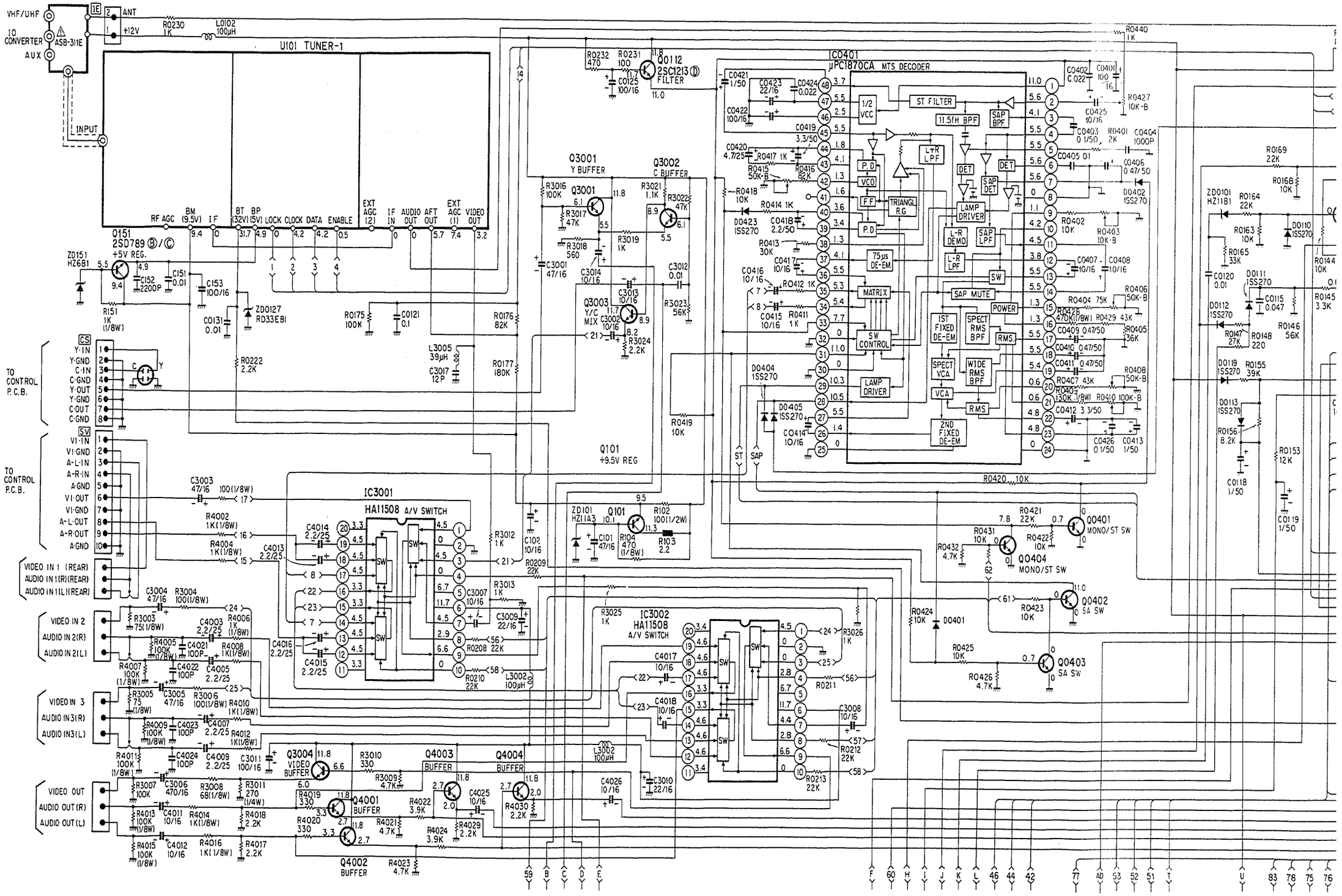
(23) G-CATHODE

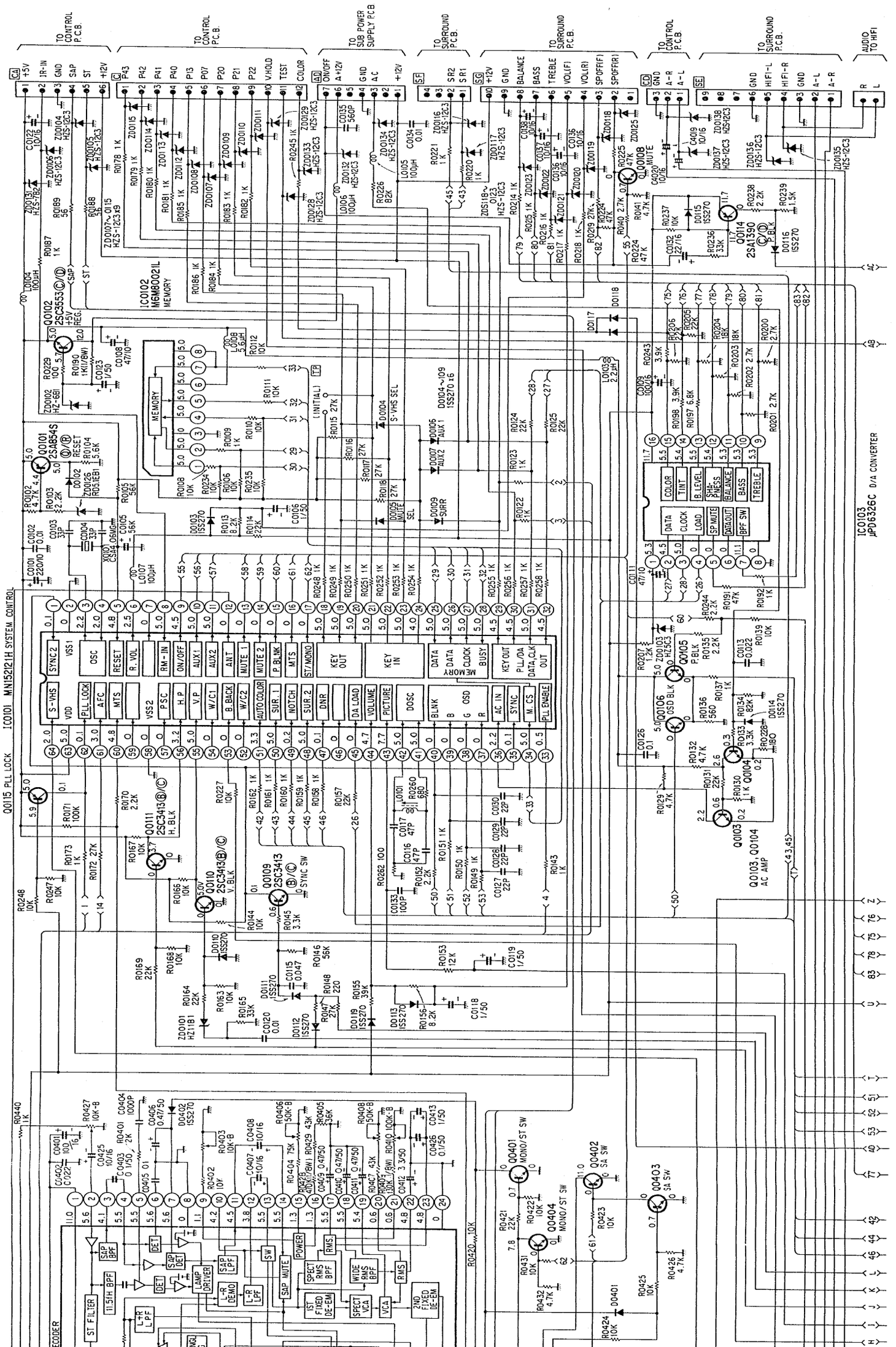


(24) B-CATHODE



SIGNAL CIRCUIT DIAGRAM (1/2)

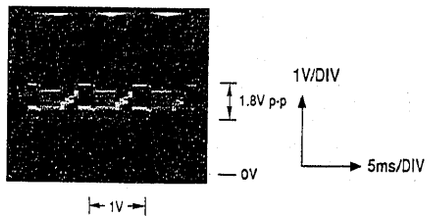



TO CONTROL P.C.B.
TO SUB POWER SUPPLY P.C.B
TO SURROUND P.C.B.
AUDIO TO HIFI
IC0102 M6M80021L MEMORY
Q0102 2SC3553©/Ⓓ +5V REG.
Q0101 2SA854S Ⓓ/Ⓔ RESET
IC0103 μPD6326C D/A CONVERTER
IC0101 MN15212JH SYSTEM CONTROL
Q0115 PLL LOCK
Q0111 2SC3413Ⓑ/© H. BLK
Q0110 2SC3413Ⓑ/© V. BLK
Q0109 2SC3413 Ⓑ/© SYNC SW
Q0103, Q0104 AC AMP
Q0105 P. BLK
Q0106 OSD BLK
Q0108 MUTE
Q0114 2SA1390 Ⓒ/Ⓓ
Q0401 MONO/ST SW
Q0402 SA SW
Q0403 SA SW
Q0404 MONO/ST SW
MEMORY
S-VHS SEL
SPECT VCA
WIDE RMS BPF
SPECT RMS BPF
1ST FIXED DE-EM
2ND FIXED DE-EM
SAP MUTE
SAP BPF
SAP LPF
SAP DET
L-R DEMO
L-R LPF
ST FILTER
11.15H BPF
LAMP DRIVER
DET
RMS
POWER
SW
L+R LPF
DECODER
DATA
CLOCK
LOAD
SP MUTE
DATAOUT
BPF SW
COLOR
TINT
B. LEVEL
SHARPNESS
BALANCE
BASS
TREBLE
SYNC2
VSS1
OSC
RESET
R. VOL
RM-IN
ON/OFF
AUX1
AUX2
ANT
MUTE 1
MUTE 2
P. BLNK
MTS
ST/MONO
KEY OUT
KEY IN
DATA
DATA CLOCK
BUSY
KEY OUT
PLL/DA DATA, CLK OUT
S-VHS
VDD
PLL LOCK
AFC
MTS
VSS2
PSC
H.P
V.P
W/C1
B. BACK
W/C2
AUTO COLOR
SUR. 1
NOTCH
SUR. 2
DNR
DA LOAD
VOLUME
PICTURE
DOSC
BLNK
B
G
R
OSD
AC IN
SYNC
M. CS
PLL ENABLE
+5V
IR-IN
GND
SAP
ST
+12V
P43
P42
P41
P40
P13
P07
P20
P21
P22
V.HOLD
TEST
COLOR
ON/OFF
A +12V
GND
A C
SR2
SR1
BALANCE
BASS
TREBLE
VOL(F)
VOL(R)
SP OFF(F)
SP OFF(R)
A-R
A-L
HI-FI-L
HI-FI-R
RESET
INITIAL
TP
SEL
AUX 1
AUX 2
SURR
MUTE
S-VHS SEL
SYNC SW
H. BLK
V. BLK
AC AMP
MEMORY

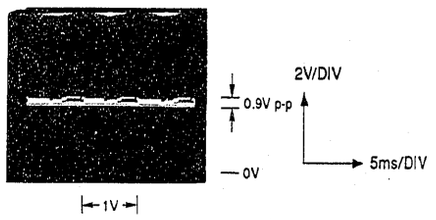
• **WAVEFORMS**

SIGNAL P. C. Board (2/2)

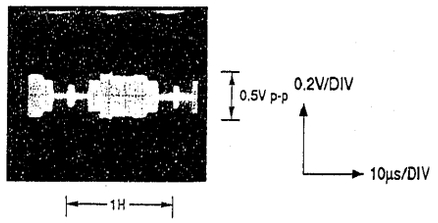
(2) Q501 EMITTER



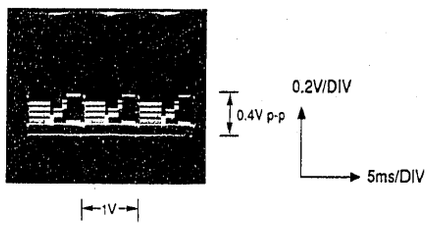
(3) Q304 EMITTER



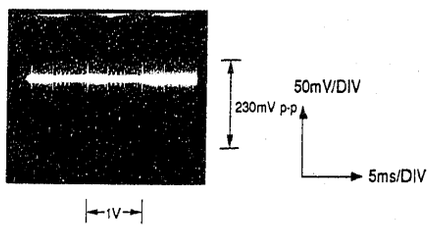
(4) Q506 EMITTER



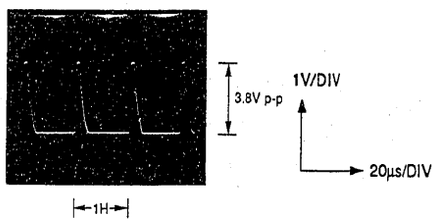
(5) IC3301 (7) PIN



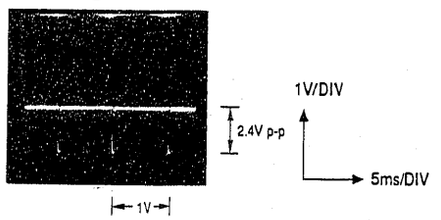
(6) IC501 (39) PIN



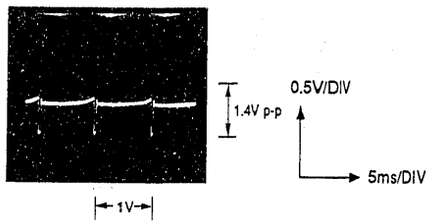
(7) IC501 (33) PIN



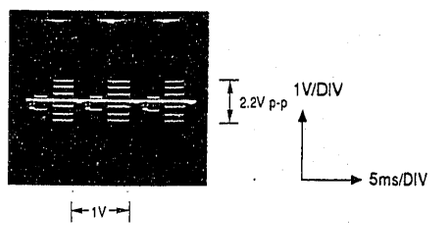
(8) IC501 (30) PIN



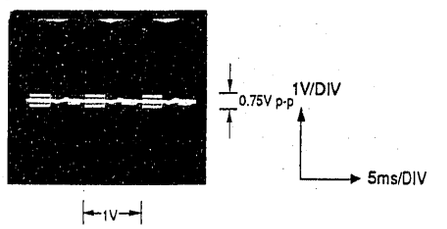
(9) IC501 (29) PIN



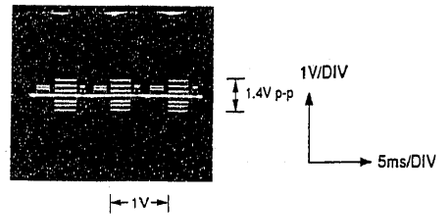
(10) IC501 (6) PIN



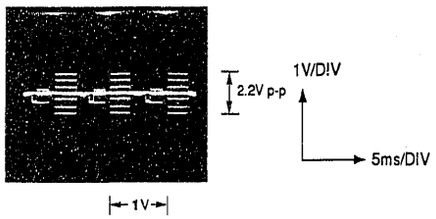
(11) IC501 (7) PIN



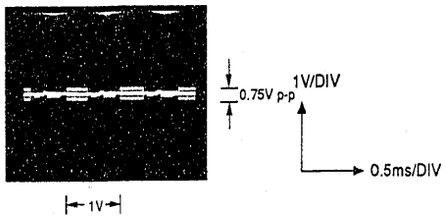
(12) IC501 (8) PIN



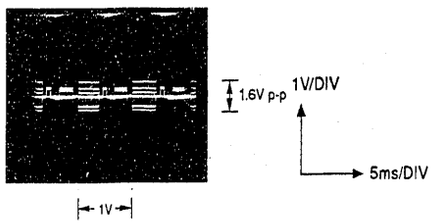
(13) SB CONNECTOR (2) PIN



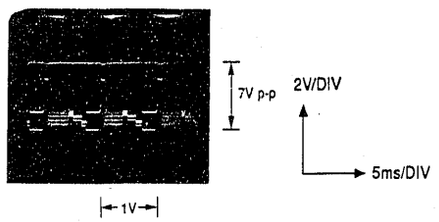
(14) SB CONNECTOR (3) PIN



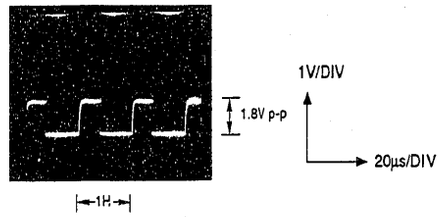
(15) SB CONNECTOR (4) PIN



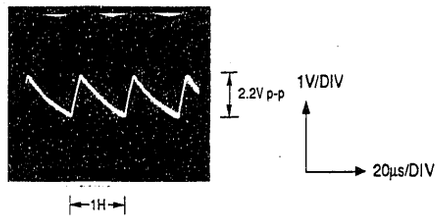
(16) Q308 BASE



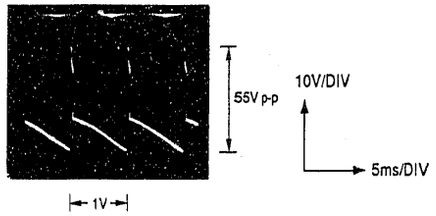
(17) IC501 (23) PIN



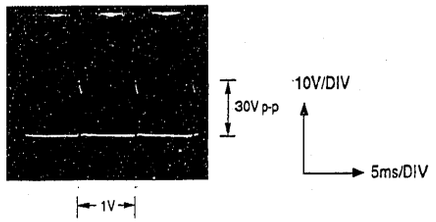
(18) IC501 (27) PIN



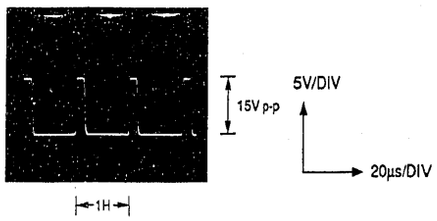
(19) IC601 (2) PIN



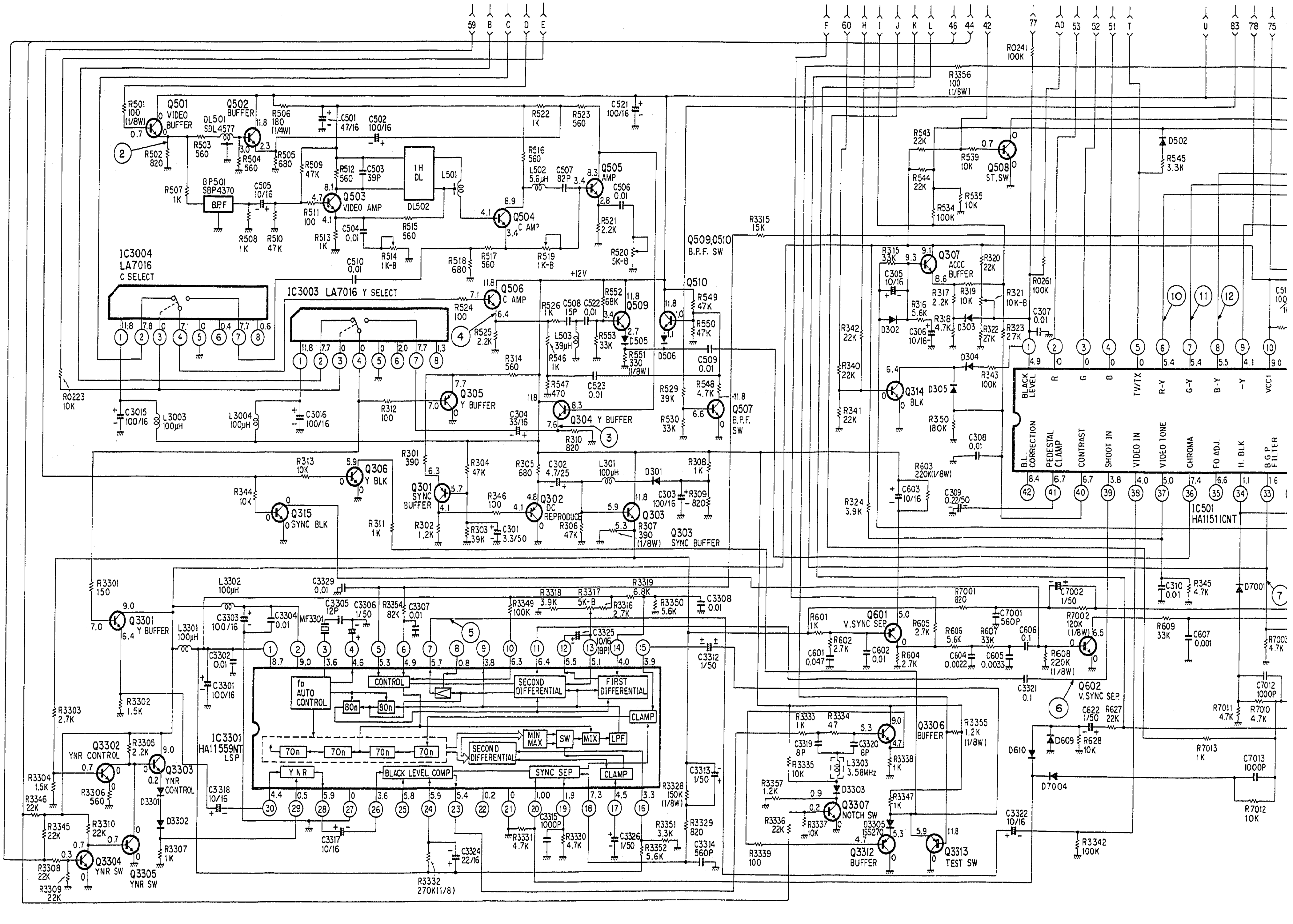
(20) IC601 (6) PIN

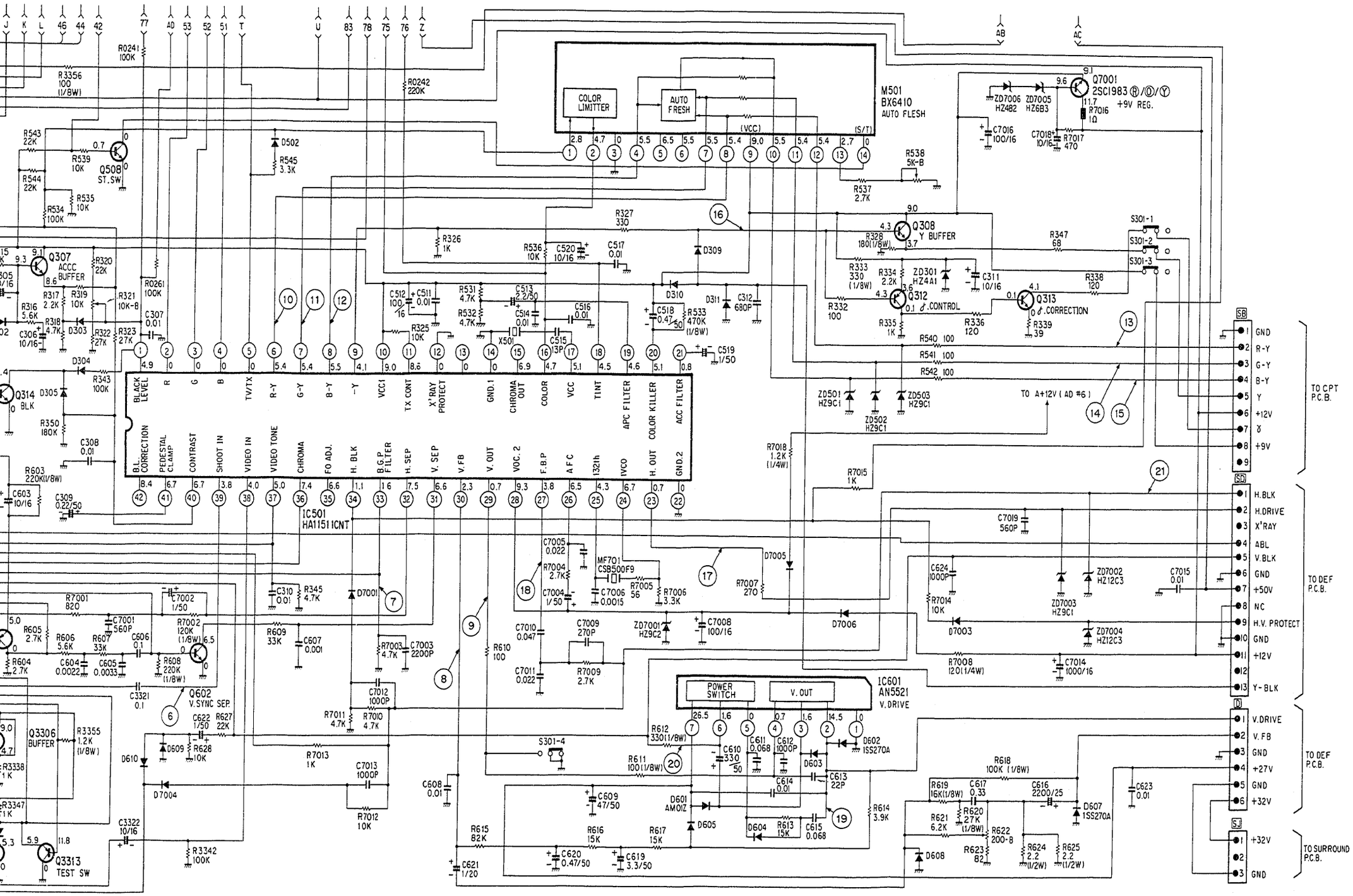


(21) SD CONNECTOR (1) PIN

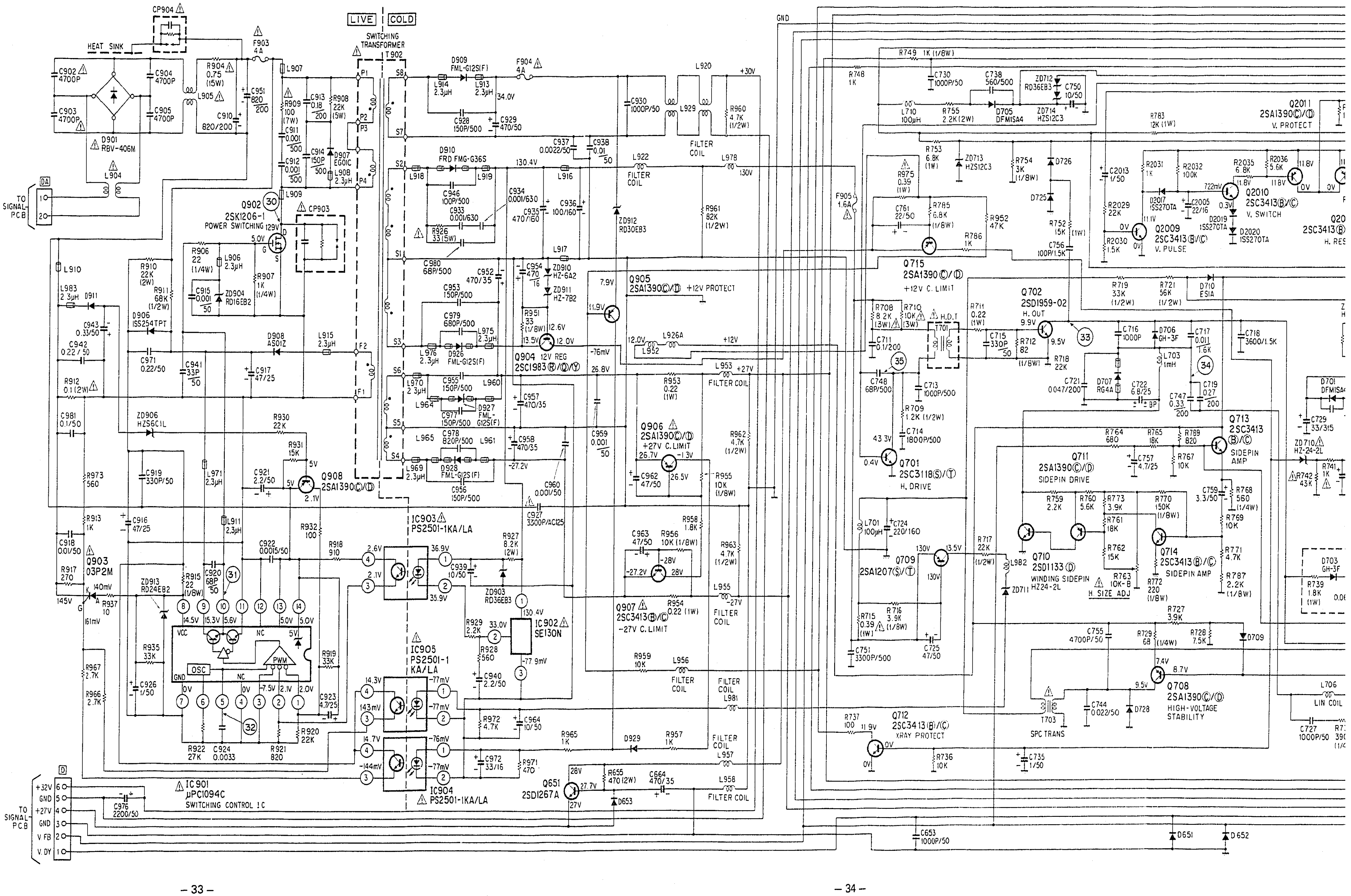


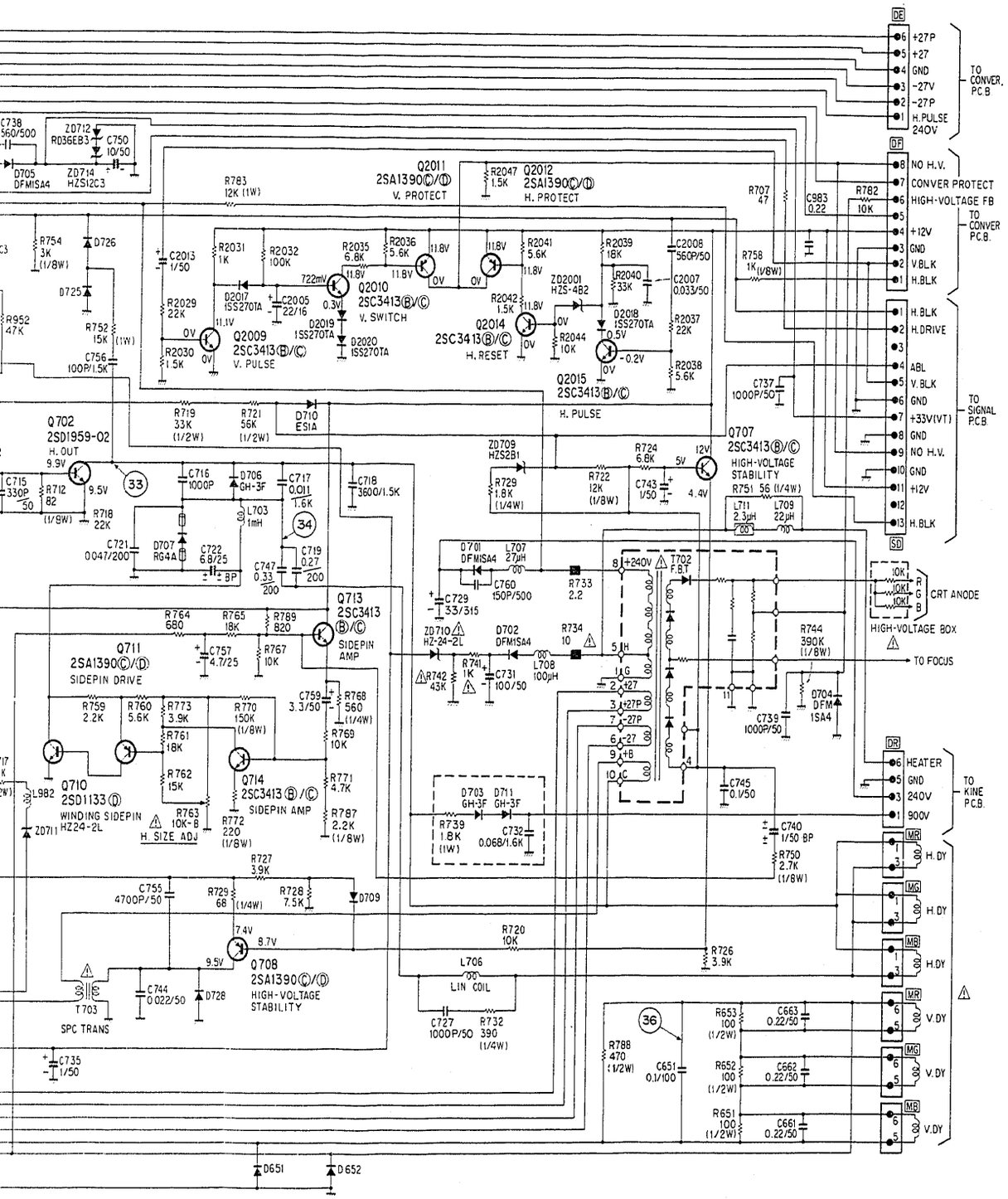
SIGNAL CIRCUIT DIAGRAM (2/2)


59 B C D E
F 60 H I J K L 46 44 42 77 AD 53 52 51 T U 83 78 75
Q501 VIDEO BUFFER
Q502 BUFFER
DL501 SDL4577
BP501 SBP4370
BPF
Q503 VIDEO AMP
1H DL
DL502
L501
Q504 C AMP
Q505 AMP
Q506 C AMP
Q509
Q510
Q509,0510 B.P.F. SW
Q507 B.P.F. SW
D505
D506
+12V
IC3004 LA7016 C SELECT
IC3003 LA7016 Y SELECT
Q305 Y BUFFER
Q304 Y BUFFER
Q306 Y BLK
Q315 SYNC BLK
Q301 SYNC BUFFER
Q302 DC REPRODUCE
Q303 SYNC BUFFER
D301
Q307 ACCC BUFFER
Q508 ST.SW
Q314 BLK
D302
D303
D304
D305
D502
IC501 HA11511CNT
BLACK LEVEL
R
G
B
TV/TX
R-Y
G-Y
B-Y
-Y
VCC1
B.L. CORRECTION
PEDESTAL CLAMP
CONTRAST
SHOOT IN
VIDEO IN
VIDEO TONE
CHROMA
FO ADJ.
H. BLK
B.G.P FILTER
Q3301 Y BUFFER
Q3302 YNR CONTROL
Q3303 YNR CONTROL
Q3304 YNR SW
Q3305 YNR SW
D3301
D3302
IC3301 HA11559NT LSP
MF3301
fo AUTO CONTROL
CONTROL
SECOND DIFFERENTIAL
FIRST DIFFERENTIAL
CLAMP
80n
70n
MIN MAX
SW
MIX
LPF
YNR
BLACK LEVEL COMP
SYNC SEP
Q601 V.SYNC SEP
Q602 V.SYNC SEP
D609
D610
D7001
D7004
Q3306 BUFFER
Q3307 NOTCH SW
Q3312 BUFFER
Q3313 TEST SW
L3303 3.58MHz
D3303
D3305 1SS270


M501
BX6410
AUTO FLESH
COLOR LIMITTER
AUTO FRESH
(VCC)
(S/T)
IC501
HA11511CNT
IC601
AN5521
V.DRIVE
POWER SWITCH
V. OUT
Q7001
2SC1983 ®/⓪/Ⓨ
+9V REG.
Q307
ACCC BUFFER
Q308
Y BUFFER
Q312
.CONTROL
Q313
.CORRECTION
Q314
BLK
Q602
V.SYNC SEP.
Q3306
BUFFER
Q3313
TEST SW
Q508
ST.SW
D502
D7001
D7003
D7004
D7005
D7006
D309
D310
D311
D602
1SS270A
D603
D604
D605
D606
D607
1SS270A
D608
D609
D610
D611
D612
D613
D614
D615
D616
D617
D618
D619
D620
D621
D622
D623
D624
D625
ZD501 HZ9C1
ZD502 HZ9C1
ZD503 HZ9C1
ZD6005 HZ6B3
ZD7006 HZ4B2
ZD7001 HZ9C2
ZD7002 HZ12C3
ZD7003 HZ9C1
ZD7004 HZ12C3
ZD301 HZ4A1
MF701 CSB500F9
X501
S301-1
S301-2
S301-3
S301-4
TO A+12V (AD #6)
TO CPT P.C.B.
TO DEF P.C.B.
TO DEF P.C.B.
TO SURROUND P.C.B.
GND
R-Y
G-Y
B-Y
Y
+12V
γ
+9V
H.BLK
H.DRIVE
X'RAY
ABL
V.BLK
GND
+50V
NC
H.V. PROTECT
GND
+12V
Y-BLK
V.DRIVE
V.FB
GND
+27V
GND
+32V
+32V
GND
BLACK LEVEL
R
G
B
TV/TX
R-Y
G-Y
B-Y
-Y
VCC1
TX CONT
X'RAY PROTECT
GND.1
CHROMA OUT
COLOR
VCC
TINT
APC FILTER
COLOR KILLER
ACC FILTER
B.L. CORRECTION
PEDESTAL CLAMP
CONTRAST
SHOOT IN
VIDEO IN
VIDEO TONE
CHROMA
FO ADJ.
H. BLK
B.G.P. FILTER
H. SEP
V. SEP
V. FB
V. OUT
VOC. 2
F.B.P
AFC
132fh
IVCO
H. OUT
GND.2

POWER/DEFLECTION CIRCUIT DIAGRAM

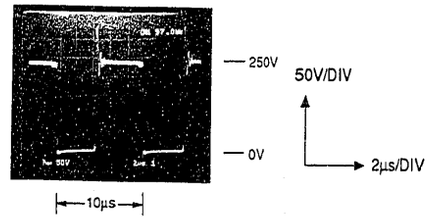

LIVE
COLD
SWITCHING TRANSFORMER
T902
CP904
HEAT SINK
F903 4A
C902 4700P
C903 4700P
C904 4700P
C905 4700P
D901 RBV-406M
L904
TO SIGNAL PCB
DA
R904 0.75 (15W)
L905
C951 820/200
C910 820/200
L907
R909 100 (7W)
C913 0.18/200
R908 22K (5W)
C911 0.001/500
C912 0.001/500
C914 150P/500
D907 EG01C
L908 2.3μH
L909
Q902 2SK1206-1 POWER SWITCHING
CP903
R906 22 (1/4W)
L906 2.3μH
R907 1K (1/4W)
C915 0.001/50
ZD904 RD16EB2
L910
R910 22K (2W)
R911 68K (1/2W)
L983 2.3μH
D911
D906 ISS254TPT
C943 0.33/50
C942 0.22/50
C971 0.22/50
C941 33P/50
D908 AS01Z
L915 2.3μH
C917 47/25
R912 0.1 (2W)
C981 0.1/50
ZD906 HZS6C1L
R930 22K
R931 15K
C919 330P/50
L971 2.3μH
C921 2.2/50
Q908 2SA1390©/Ⓓ
R973 560
R913 1K
C916 47/25
L911 2.3μH
R932 100
C918 0.01/50
Q903 03P2M
R917 270
R937 10
C922 0.0015/50
R918 910
R915 22 (1/8W)
C920 68P/50
ZD913 RD24EB2
R935 33K
C926 1/50
R919 33K
C923 4.7/25
R920 22K
R922 27K
C924 0.0033
R921 820
VCC
GND
OSC
PWM
NC
IC901 μPC1094C SWITCHING CONTROL IC
+32V
GND
+27V
GND
V.FB
V.DY
C976 2200/50
D909 FML-G12S(F)
L914 2.3μH
L913 2.3μH
C928 150P/500
C929 470/50
F904 4A
L920
+30V
C930 1000P/50
L929
R960 4.7K (1/2W)
FILTER COIL
C937 0.0022/50
C938 0.01/50
D910 FRD FMG-G36S
L918
L919
C946 100P/500
C933 0.001/630
R926 33 (5W)
C934 0.001/630
C935 470/160
C936 100/160
L916
L922
L978
130V
ZD912 RD30EB3
R961 82K (1/2W)
L917
C980 68P/500
C952 470/35
C954 470/16
ZD910 HZ-6A2
ZD911 HZ-7B2
Q905 2SA1390©/Ⓓ +12V PROTECT
C953 150P/500
C979 680P/500
L975 2.3μH
R951 33 (1/8W)
Q904 12V REG 2SC1983Ⓡ/Ⓠ/Ⓨ
L976 2.3μH
D926 FML-G12S(F)
L926A
L952
+12V
L953
+27V
L970 2.3μH
C955 150P/500
L960
L964
D927 FML-G12S(F)
C977 150P/500
C957 470/35
R953 0.22 (1W)
C959 0.001/50
L965
C978 820P/500
L961
C958 470/35
L969 2.3μH
D928 FML-G12S(F)
C956 150P/500
C960 0.001/50
Q906 2SA1390©/Ⓓ +27V C.LIMIT
C962 47/50
R955 10K (1/8W)
R962 4.7K (1/2W)
C927 3300P/AC125
IC903 PS2501-1KA/LA
R927 8.2K (2W)
C939 10/50
ZD903 RD36EB3
R958 1.8K
C963 47/50
R956 10K (1/8W)
R963 4.7K (1/2W)
L955
-27V
Q907 2SC3413Ⓑ/©
-27V C.LIMIT
R954 0.22 (1W)
R929 2.2K
R928 560
IC902 SE130N
C940 2.2/50
IC905 PS2501-1 KA/LA
R959 10K
L956
L981
R972 4.7K
C964 10/50
R965 1K
D929
R957 1K
L957
C972 33/16
R971 470
IC904 PS2501-1KA/LA
Q651 2SD1267A
R655 470 (2W)
C664 470/35
D653
L958
GND
F905 1.6A
R749 1K (1/8W)
R748 1K
C730 1000P/50
C738 560/500
ZD712 RD36EB3
C750 10/50
L710 100μH
R755 2.2K (2W)
D705 DFM1SA4
ZD714 HZS12C3
R783 12K (1W)
Q2011 2SA1390©/Ⓓ V. PROTECT
R753 6.8K (1W)
ZD713 HZS12C3
R754 3K (1/8W)
D726
D725
R975 0.39 (1W)
C761 22/50
R785 6.8K (1/8W)
R952 47K
R786 1K
R752 15K (1W)
C756 100P/1.5K
Q715 2SA1390©/Ⓓ +12V C. LIMIT
C2013 1/50
R2029 22K
R2030 1.5K
R2031 1K
R2032 100K
D2017 1SS270TA
C2005 22/16
R2035 6.8K
R2036 5.6K
Q2010 2SC3413Ⓑ/© V. SWITCH
D2019 1SS270TA
D2020 1SS270TA
Q2009 2SC3413Ⓑ/© V. PULSE
H. RES
R719 33K (1/2W)
R721 56K (1/2W)
D710 ES1A
R708 8.2K (3W)
R710 10K (3W)
H.D.T T701
R711 0.22 (1W)
Q702 2SD1959-02 H. OUT
C711 0.1/200
C715 330P/50
R712 82 (1/8W)
R718 22K
C716 1000P
D706 GH-3F
C717 0.011/1.6K
C718 3600/1.5K
L703 1mH
C748 68P/500
C713 1000P/500
C721 0.047/200
D707 RG4A
C722 6.8/25 BP
C747 0.33/200
C719 0.27/200
R709 1.2K (1/2W)
C714 1800P/500
Q701 2SC3118Ⓢ/Ⓣ H. DRIVE
D701 DFM1SA4
C729 33/315
ZD710 HZ-24-2L
R741 1K
R742 43K
Q713 2SC3413 Ⓑ/© SIDEPIN AMP
R764 680
R765 18K
R789 820
Q711 2SA1390©/Ⓓ SIDEPIN DRIVE
C757 4.7/25
R767 10K
C759 3.3/50
R768 560 (1/4W)
R759 2.2K
R760 5.6K
R773 3.9K
R770 150K (1/8W)
R761 18K
R769 10K
L701 100μH
C724 220/160
R717 22K (1/2W)
L982
Q709 2SA1207Ⓢ/Ⓣ
Q710 2SD1133Ⓓ WINDING SIDEPIN
ZD711 HZ24-2L
R762 15K
R763 10K-B H. SIZE ADJ
R772 220 (1/8W)
Q714 2SC3413Ⓑ/© SIDEPIN AMP
R771 4.7K
R787 2.2K (1/8W)
D703 GH-3F
R739 1.8K (1W)
R715 0.39 (1W)
R716 3.9K (1/8W)
C725 47/50
C751 3300P/500
R727 3.9K
C755 4700P/50
R729 68 (1/4W)
R728 7.5K
D709
Q708 2SA1390©/Ⓓ HIGH-VOLTAGE STABILITY
L706 LIN COIL
C727 1000P/50
T703 SPC TRANS
C744 0.022/50
D728
R737 100
Q712 2SC3413Ⓑ/© XRAY PROTECT
R736 10K
C735 1/50
C653 1000P/50
D651
D652



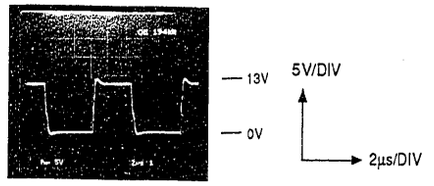
• WAVEFORMS

POWRE/DEFLECTION P. C. Board

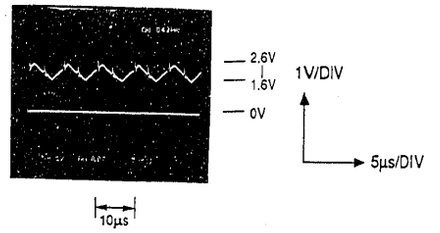
(30) Q907 DRAIN



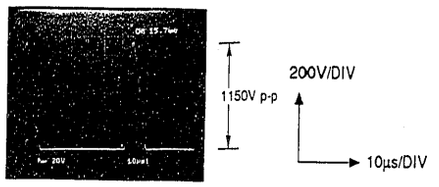
(31) IC901 (10) PIN



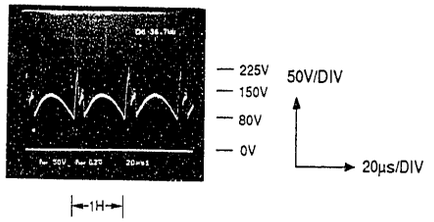
(32) IC901 (5) PIN



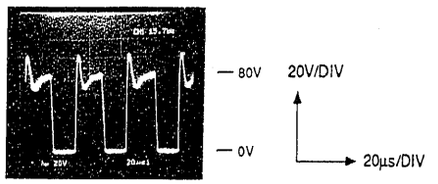
(33) Q702 CORRECTOR



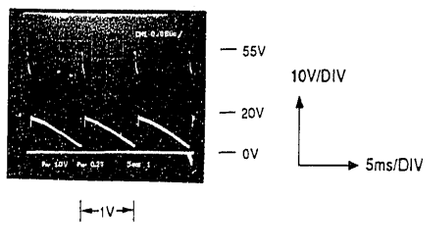
(34) CROSS POINT BY C717 AND C719



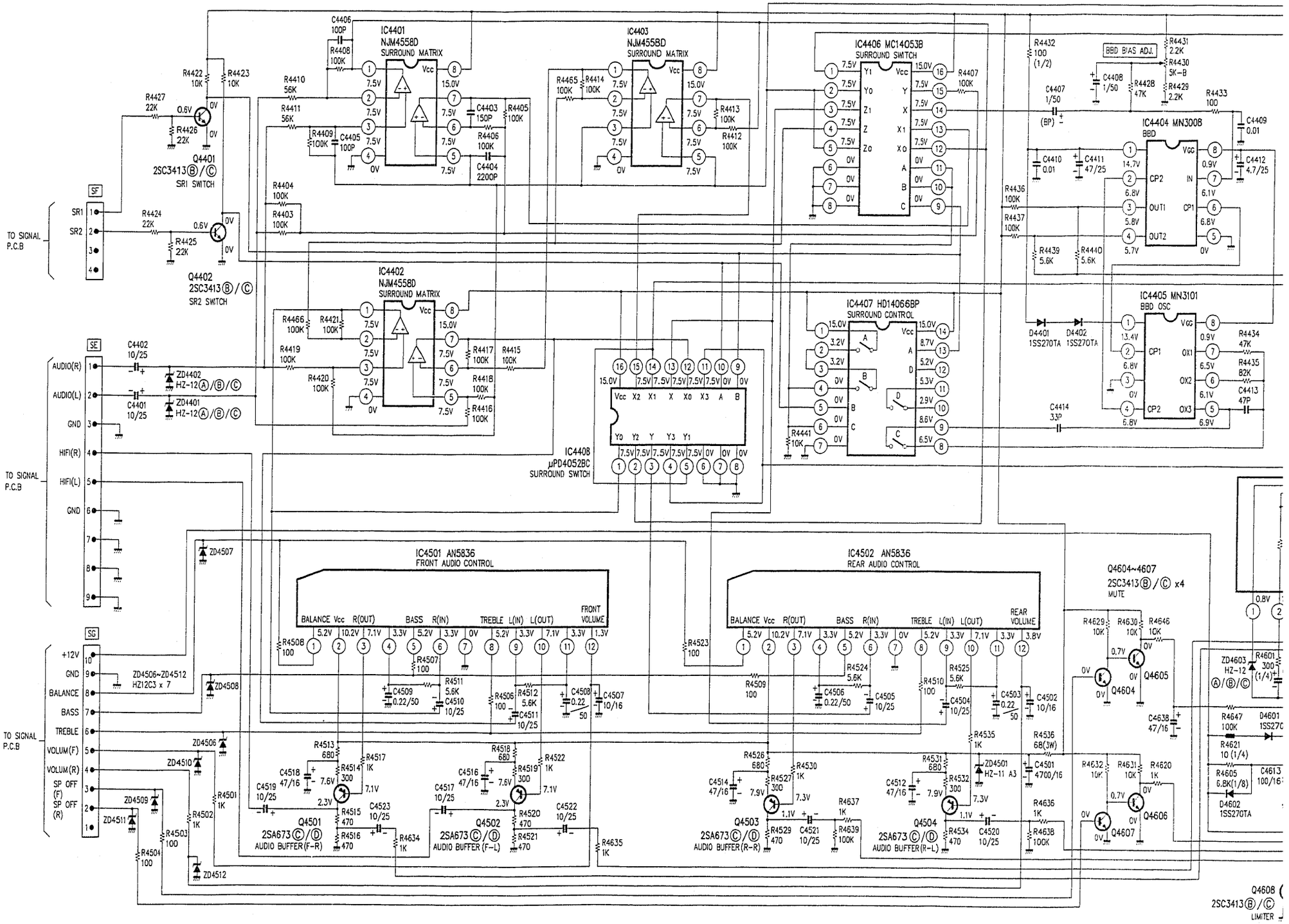
(35) Q701 CORRECTOR

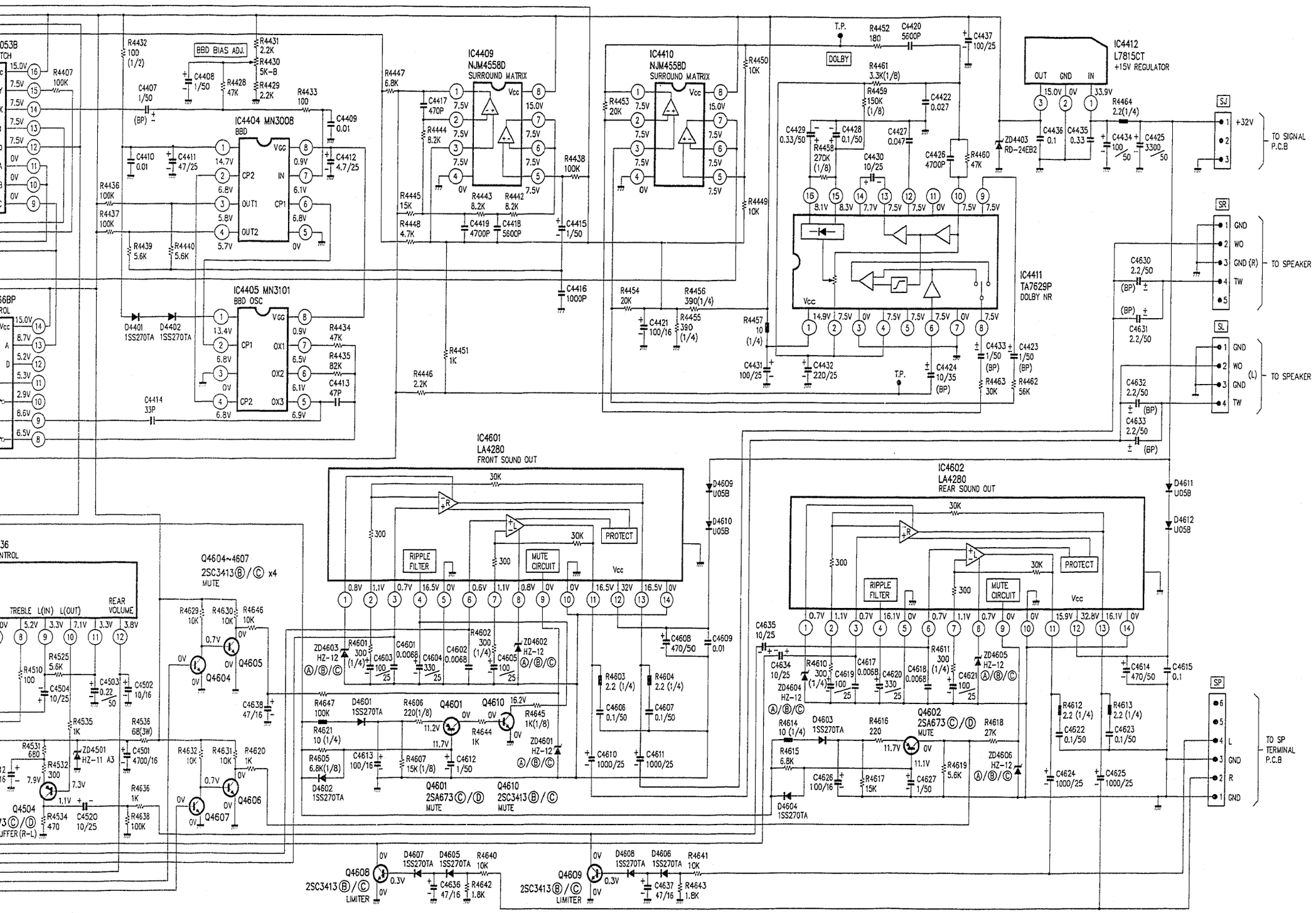


(36) MR CONNECTOR (1) PIN

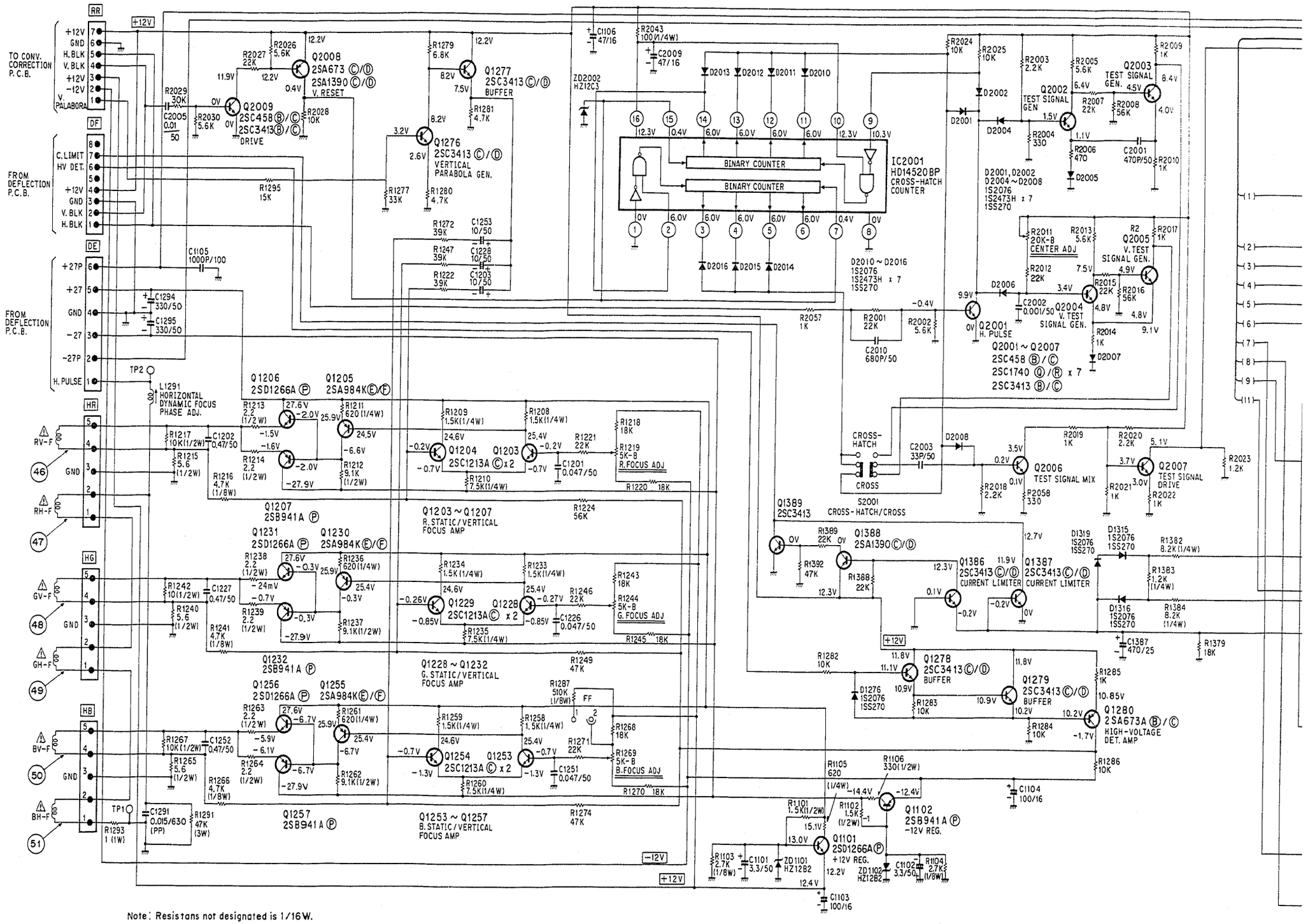


SURROUND CIRCUIT DIAGRAM

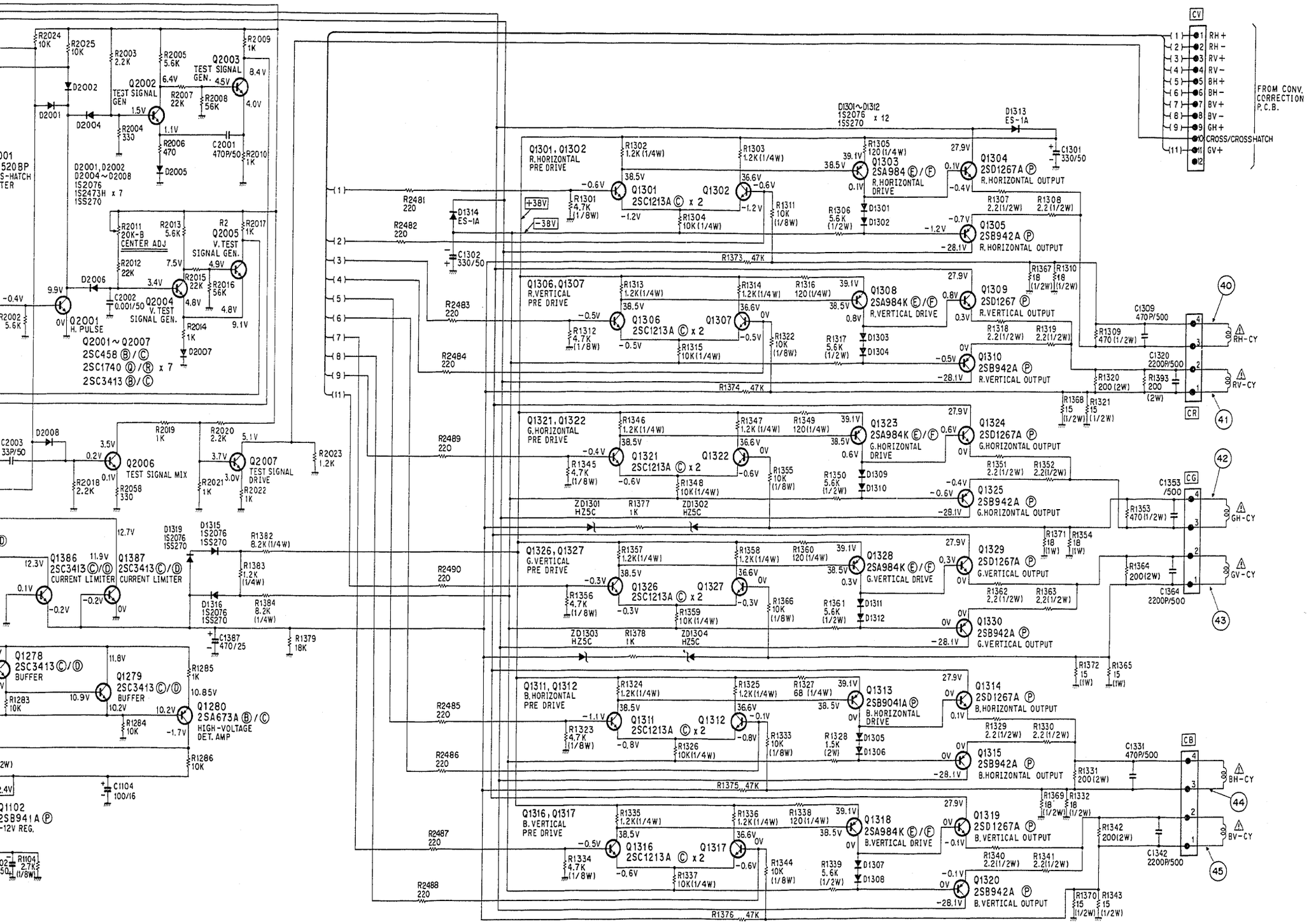



IC4404 MN3008
BBD
BBD BIAS ADJ.
IC4405 MN3101
BBD OSC
IC4409
NJM4558D
SURROUND MATRIX
IC4410
NJM4558D
SURROUND MATRIX
IC4411
TA7629P
DOLBY NR
IC4412
L7815CT
+15V REGULATOR
IC4601
LA4280
FRONT SOUND OUT
IC4602
LA4280
REAR SOUND OUT
DOLBY
RIPPLE FILTER
MUTE CIRCUIT
PROTECT
Vcc
Q4601
2SA673Ⓒ/Ⓓ
MUTE
Q4602
2SA673Ⓒ/Ⓓ
MUTE
Q4604~4607
2SC3413Ⓑ/Ⓒ x4
MUTE
Q4608
2SC3413Ⓑ/Ⓒ
LIMITER
Q4609
2SC3413Ⓑ/Ⓒ
LIMITER
Q4610
2SC3413Ⓑ/Ⓒ
MUTE
D4401 1SS270TA
D4402 1SS270TA
D4601 1SS270TA
D4602 1SS270TA
D4603 1SS270TA
D4604 1SS270TA
ZD4403 RD-24EB2
ZD4501 HZ-11 A3
SJ
SR
SL
SP
+32V
TO SIGNAL P.C.B
TO SPEAKER
TO SP TERMINAL P.C.B
GND
WO
GND (R)
TW
GND (L)
L
R

CONVERGENCE FOCUS CIRCUIT DIAGRAM



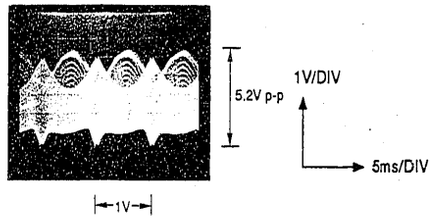
Note: Resistans not designated is 1/16W.


R2024 10K
R2025 10K
R2003 2.2K
R2005 5.6K
R2009 1K
Q2003 TEST SIGNAL GEN. 4.5V
8.4V
D2002
Q2002 TEST SIGNAL GEN
6.4V
R2007 22K
R2008 56K
4.0V
1.5V
D2001
D2004
R2004 330
1.1V
R2006 470
C2001 470P/50
R2010 1K
D2005
D2001, D2002
D2004 ~ D2008
1S2076
1S2473H x 7
1SS270
R2011 20K-B CENTER ADJ
R2013 5.6K
R2
Q2005 V. TEST SIGNAL GEN.
R2017 1K
4.9V
7.5V
R2012 22K
3.4V
D2006
R2015 22K
R2016 56K
4.8V
4.8V
9.9V
-0.4V
C2002 0.001/50
Q2004 V. TEST SIGNAL GEN.
0V
Q2001 H. PULSE
9.1V
R2014 1K
D2007
Q2001 ~ Q2007
2SC458 B/C
2SC1740 Q/R x 7
2SC3413 B/C
D2008
C2003 33P/50
R2019 1K
R2020 2.2K
5.1V
3.5V
3.7V
0.2V
Q2006 TEST SIGNAL MIX
0.1V
3.0V
Q2007 TEST SIGNAL DRIVE
R2023 1.2K
R2018 2.2K
R2058 330
R2021 1K
R2022 1K
12.7V
D1319 1S2076 1SS270
D1315 1S2076 1SS270
R1382 8.2K(1/4W)
12.3V
11.9V
Q1386 2SC3413 C/D CURRENT LIMITER
Q1387 2SC3413 C/D CURRENT LIMITER
R1383 1.2K (1/4W)
0.1V
-0.2V
-0.2V
0V
D1316 1S2076 1SS270
R1384 8.2K (1/4W)
C1387 470/25
R1379 18K
Q1278 2SC3413 C/D BUFFER
11.8V
R1285 1K
Q1279 2SC3413 C/D BUFFER
10.85V
10.9V
10.2V
10.2V
R1283 10K
R1284 10K
Q1280 2SA673A B/C HIGH-VOLTAGE DET. AMP
-1.7V
R1286 10K
C1104 100/16
Q1102 2SB941A P -12V REG.
R1104 2.7K (1/8W)
D1301 ~ D1312 1S2076 1SS270 x 12
D1313 ES-1A
Q1301, Q1302 R. HORIZONTAL PRE DRIVE
R1302 1.2K(1/4W)
R1303 1.2K(1/4W)
R1305 120(1/4W)
39.1V
38.5V
Q1303 2SA984 E/F R. HORIZONTAL DRIVE
27.9V
Q1304 2SD1267A P R. HORIZONTAL OUTPUT
C1301 330/50
-0.6V
Q1301
Q1302
36.6V
-0.6V
0.1V
0.1V
-0.4V
38.5V
-1.2V
-1.2V
R1301 4.7K (1/8W)
R1304 10K(1/4W)
R1311 10K (1/8W)
R1306 5.6K (1/2W)
D1301
D1302
R1307 2.2(1/2W)
R1308 2.2(1/2W)
-0.7V
-1.2V
Q1305 2SB942A P R. HORIZONTAL OUTPUT
-28.1V
R1373 47K
R2481 220
R2482 220
R2483 220
R2484 220
R2489 220
R2490 220
R2485 220
R2486 220
R2487 220
R2488 220
+38V
-38V
D1314 ES-1A
C1302 330/50
Q1306, Q1307 R. VERTICAL PRE DRIVE
R1313 1.2K(1/4W)
R1314 1.2K(1/4W)
R1316 120(1/4W)
39.1V
38.5V
Q1308 2SA984K E/F R. VERTICAL DRIVE
27.9V
Q1309 2SD1267 P R. VERTICAL OUTPUT
-0.5V
Q1306
2SC1213A C x 2
Q1307
36.6V
0V
0.8V
0.3V
R1312 4.7K (1/8W)
R1315 10K(1/4W)
R1322 10K (1/8W)
R1317 5.6K (1/2W)
D1303
D1304
R1318 2.2(1/2W)
R1319 2.2(1/2W)
0V
-0.5V
Q1310 2SB942A P R. VERTICAL OUTPUT
-28.1V
R1374 47K
R1367 18 (1/2W)
R1310 18 (1/2W)
C1309 470P/500
R1309 470 (1/2W)
R1320 200 (2W)
C1320 2200P/500
R1393 200 (2W)
R1368 15 (1/2W)
R1321 15 (1/2W)
Q1321, Q1322 G. HORIZONTAL PRE DRIVE
R1346 1.2K(1/4W)
R1347 1.2K (1/4W)
R1349 120(1/4W)
Q1323 2SA984K E/F G. HORIZONTAL DRIVE
Q1324 2SD1267A P G. HORIZONTAL OUTPUT
0.6V
-0.4V
Q1321
2SC1213A C x 2
Q1322
-0.6V
R1345 4.7K (1/8W)
R1348 10K(1/4W)
R1355 10K (1/8W)
R1350 5.6K (1/2W)
D1309
D1310
R1351 2.2(1/2W)
R1352 2.2(1/2W)
-0.6V
Q1325 2SB942A P G. HORIZONTAL OUTPUT
ZD1301 HZ5C
R1377 1K
ZD1302 HZ5C
C1353 /500
R1353 470(1/2W)
R1371 18 (1W)
R1354 18 (1W)
Q1326, Q1327 G. VERTICAL PRE DRIVE
R1357 1.2K(1/4W)
R1358 1.2K(1/4W)
R1360 120(1/4W)
Q1328 2SA984K E/F G. VERTICAL DRIVE
Q1329 2SD1267A P G. VERTICAL OUTPUT
0.3V
Q1326
2SC1213A C x 2
Q1327
-0.3V
R1356 4.7K (1/8W)
R1359 10K(1/4W)
R1366 10K (1/8W)
R1361 5.6K (1/2W)
D1311
D1312
R1362 2.2(1/2W)
R1363 2.2(1/2W)
Q1330 2SB942A P G. VERTICAL OUTPUT
ZD1303 HZ5C
R1378 1K
ZD1304 HZ5C
R1364 200(2W)
C1364 2200P/500
R1372 15 (1W)
R1365 15 (1W)
Q1311, Q1312 B. HORIZONTAL PRE DRIVE
R1324 1.2K(1/4W)
R1325 1.2K(1/4W)
R1327 68 (1/4W)
Q1313 2SB9041A P B. HORIZONTAL DRIVE
Q1314 2SD1267A P B. HORIZONTAL OUTPUT
-1.1V
Q1311
2SC1213A C x 2
Q1312
36.6V
-0.1V
-0.8V
-0.8V
R1323 4.7K (1/8W)
R1326 10K(1/4W)
R1333 10K (1/8W)
R1328 1.5K (2W)
D1305
D1306
R1329 2.2(1/2W)
R1330 2.2(1/2W)
Q1315 2SB942A P B. HORIZONTAL OUTPUT
-28.1V
R1375 47K
C1331 470P/500
R1331 200(2W)
R1369 18 (1/2W)
R1332 18 (1/2W)
R1342 200(2W)
C1342 2200P/500
Q1316, Q1317 B. VERTICAL PRE DRIVE
R1335 1.2K(1/4W)
R1336 1.2K(1/4W)
R1338 120(1/4W)
Q1318 2SA984K E/F B. VERTICAL DRIVE
Q1319 2SD1267A P B. VERTICAL OUTPUT
-0.5V
Q1316
2SC1213A C x 2
Q1317
36.6V
0V
-0.6V
-0.6V
R1334 4.7K (1/8W)
R1337 10K(1/4W)
R1344 10K (1/8W)
R1339 5.6K (1/2W)
D1307
D1308
R1340 2.2(1/2W)
R1341 2.2(1/2W)
-0.1V
Q1320 2SB942A P B. VERTICAL OUTPUT
-28.1V
R1376 47K
R1370 15 (1/2W)
R1343 15 (1/2W)
CV
RH+
RH-
RV+
RV-
BH+
BH-
BV+
BV-
GH+
CROSS/CROSSHATCH
GV+
FROM CONV. CORRECTION P.C.B.
CR
CG
CB
40
41
42
43
44
45
RH-CY
RV-CY
GH-CY
GV-CY
BH-CY
BV-CY

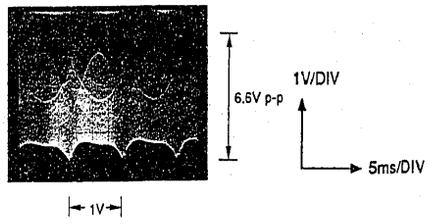
• **WAVEFORMS**

CONVERGENCE FOCUS P. C. Board

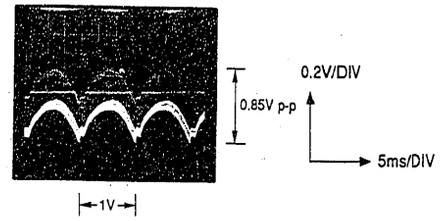
(40) CR CONNECTOR (4) PIN



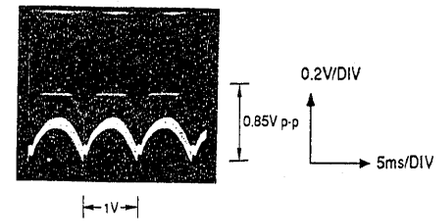
(44) CB CONNECTOR (3) PIN



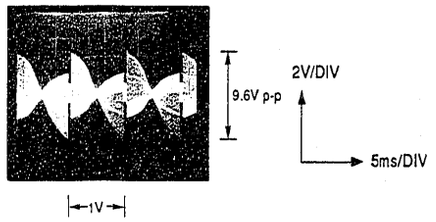
(48) HG CONNECTOR (4) PIN



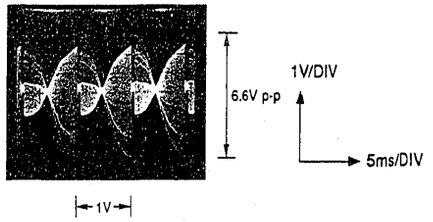
(50) HB CONNECTOR (4) PIN



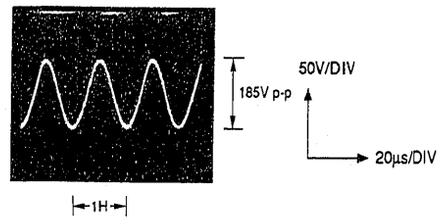
(41) CR CONNECTOR (1) PIN



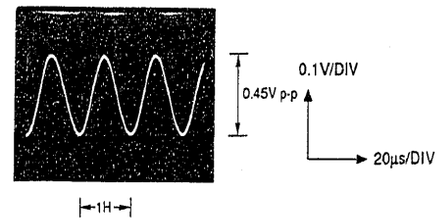
(45) CB CONNECTOR (1) PIN



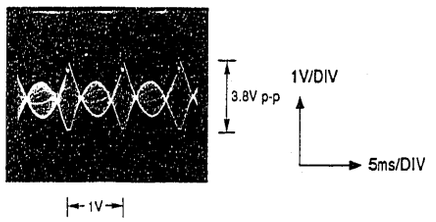
(49) HG CONNECTOR (1) PIN



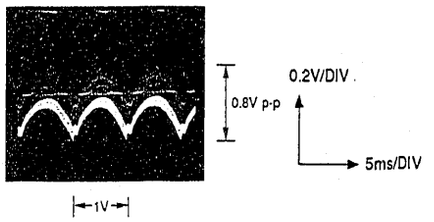
(51) HB CONNECTOR (1) PIN



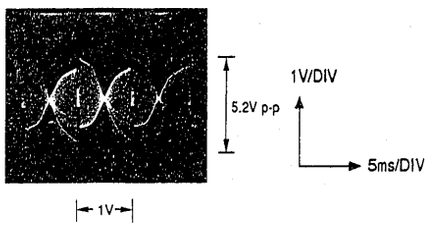
(42) CG CONNECTOR (4) PIN



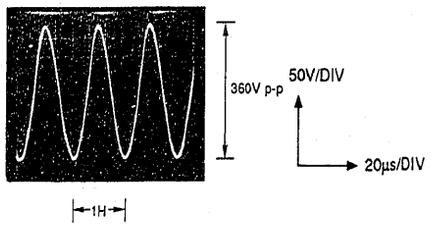
(46) HR CONNECTOR (4) PIN



(43) CG CONNECTOR (1) PIN



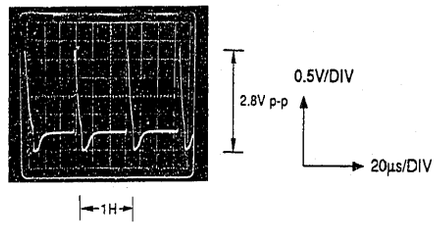
(47) HR CONNECTOR (1) PIN



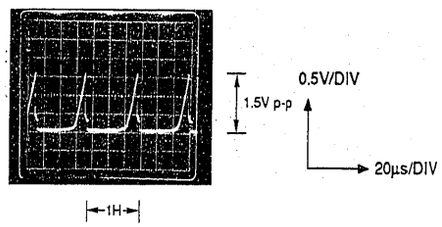
• WAVEFORMS

CONVERGENCE CORRECTION P. C. Board

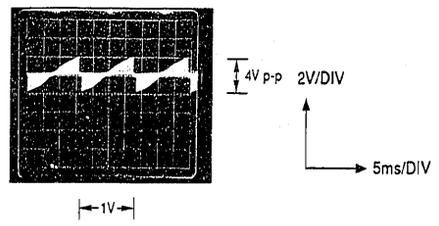
(55) IC2101 (20) PIN



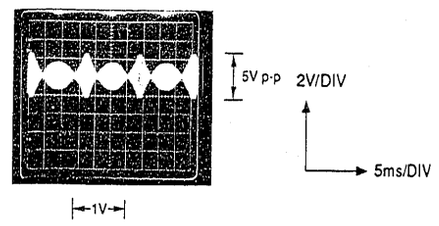
(59) Q2123 EMITTER



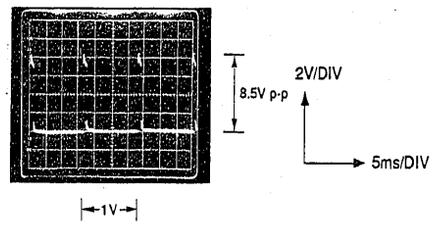
(63) IC2101 (38) PIN



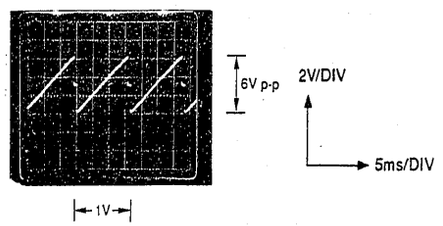
(67) IC2101 (5) PIN



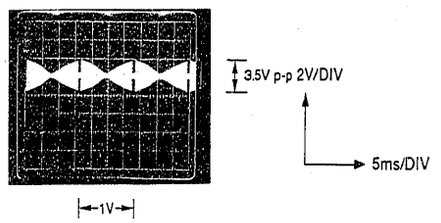
(56) IC2101 (22) PIN



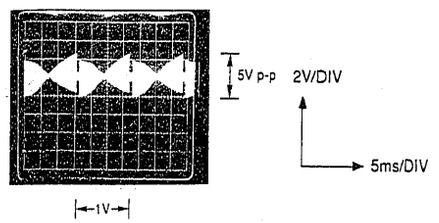
(60) IC2101 (31) PIN



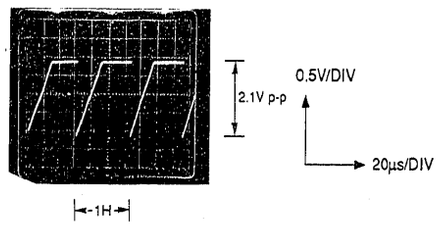
(64) IC2101 (40) PIN



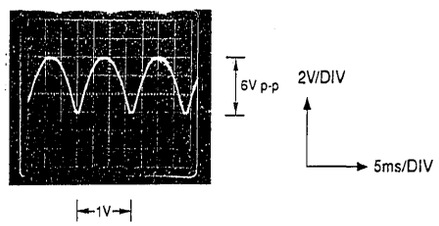
(68) IC2101 (3) PIN



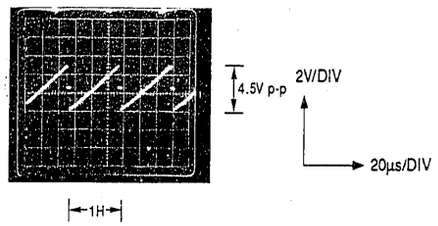
(57) Q2126 EMITTER



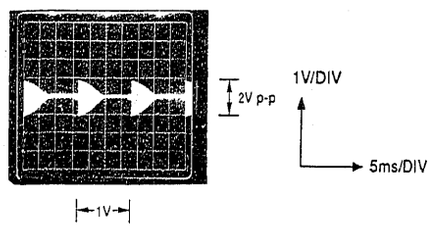
(61) Q2122 EMITTER



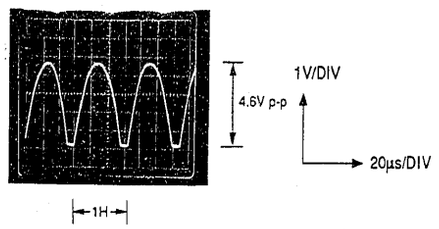
(65) IC2101 (12) PIN



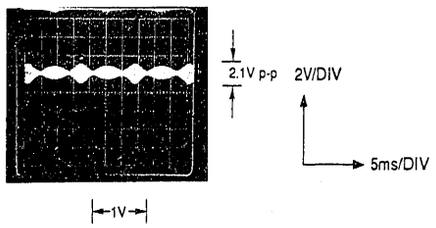
(69) Q2133 CORRECTOR



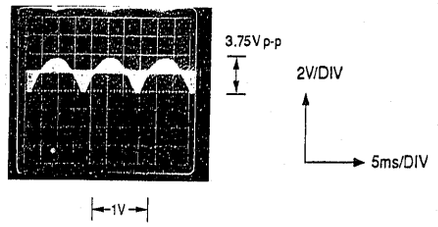
(58) Q2115 EMITTER



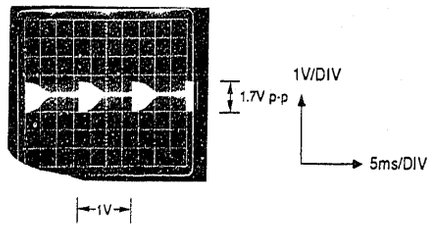
(62) IC2101 (37) PIN



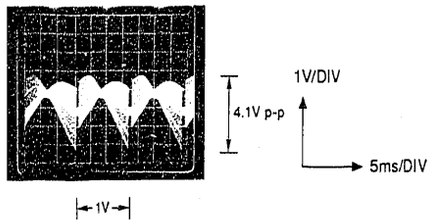
(66) IC2101 (6) PIN



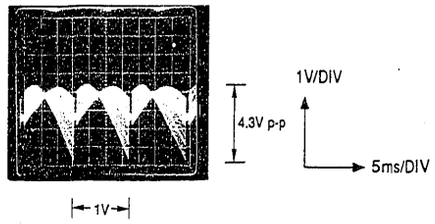
(70) C2192 ⊖ SIDE



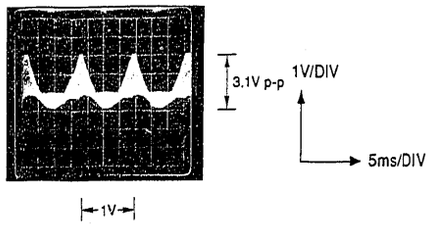
(71) IC2102 (1) PIN



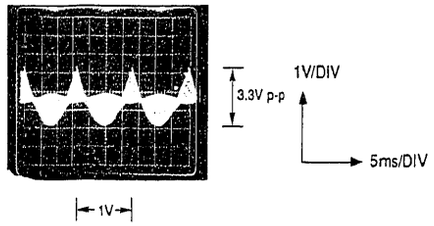
(75) IC2103 (1) PIN



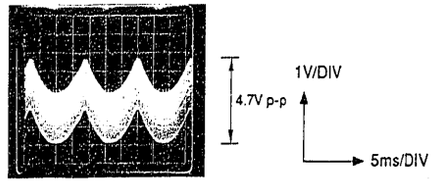
(72) IC2102 (7) PIN



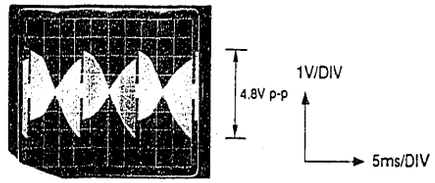
(76) IC2103 (7) PIN



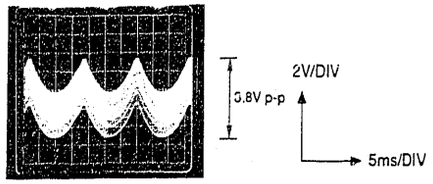
(73) IC2105 (1) PIN



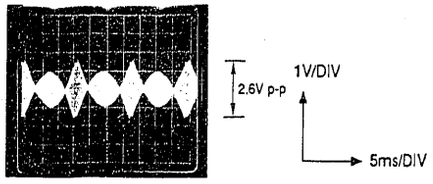
(77) IC2104 (1) PIN



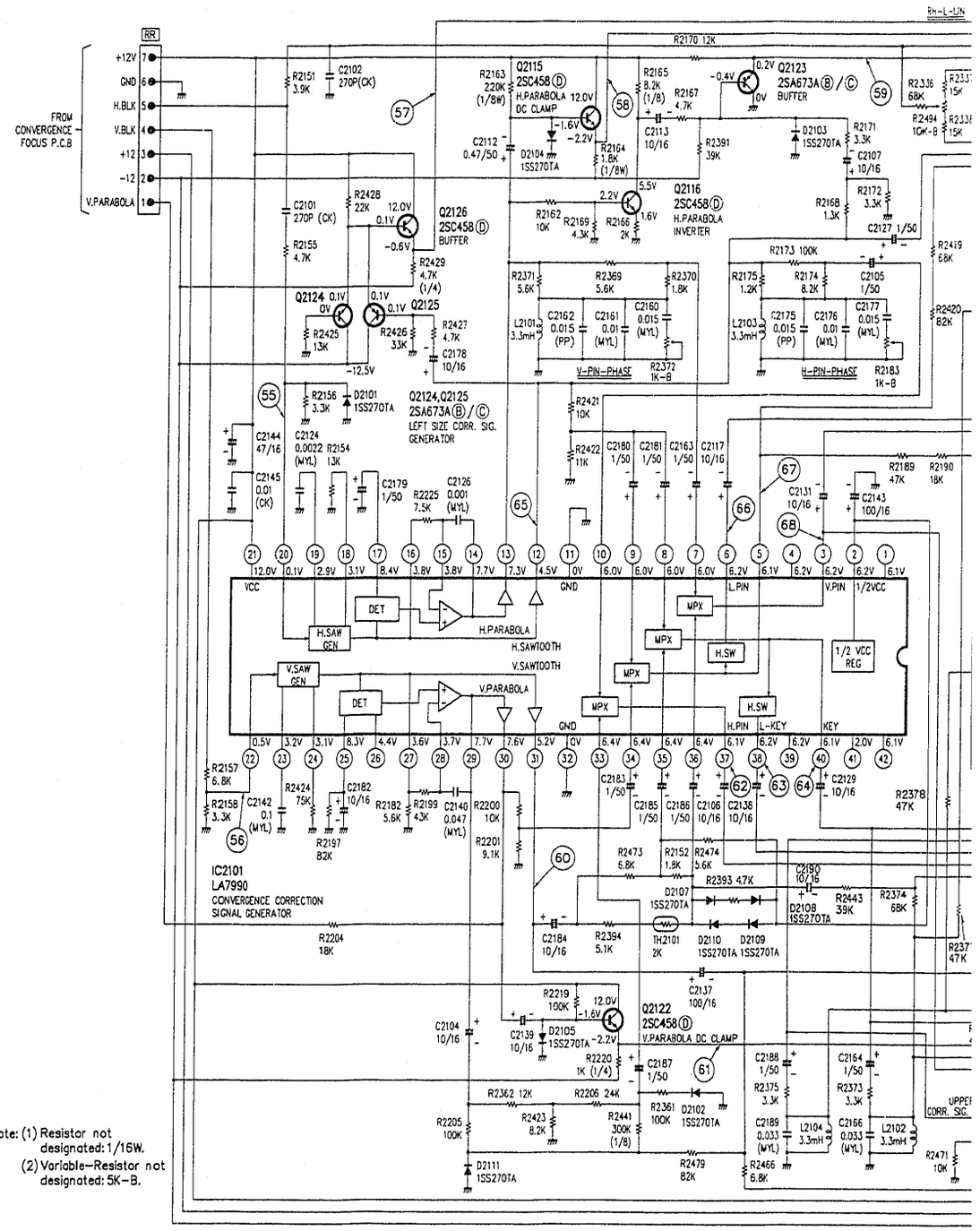
(74) IC2105 (7) PIN



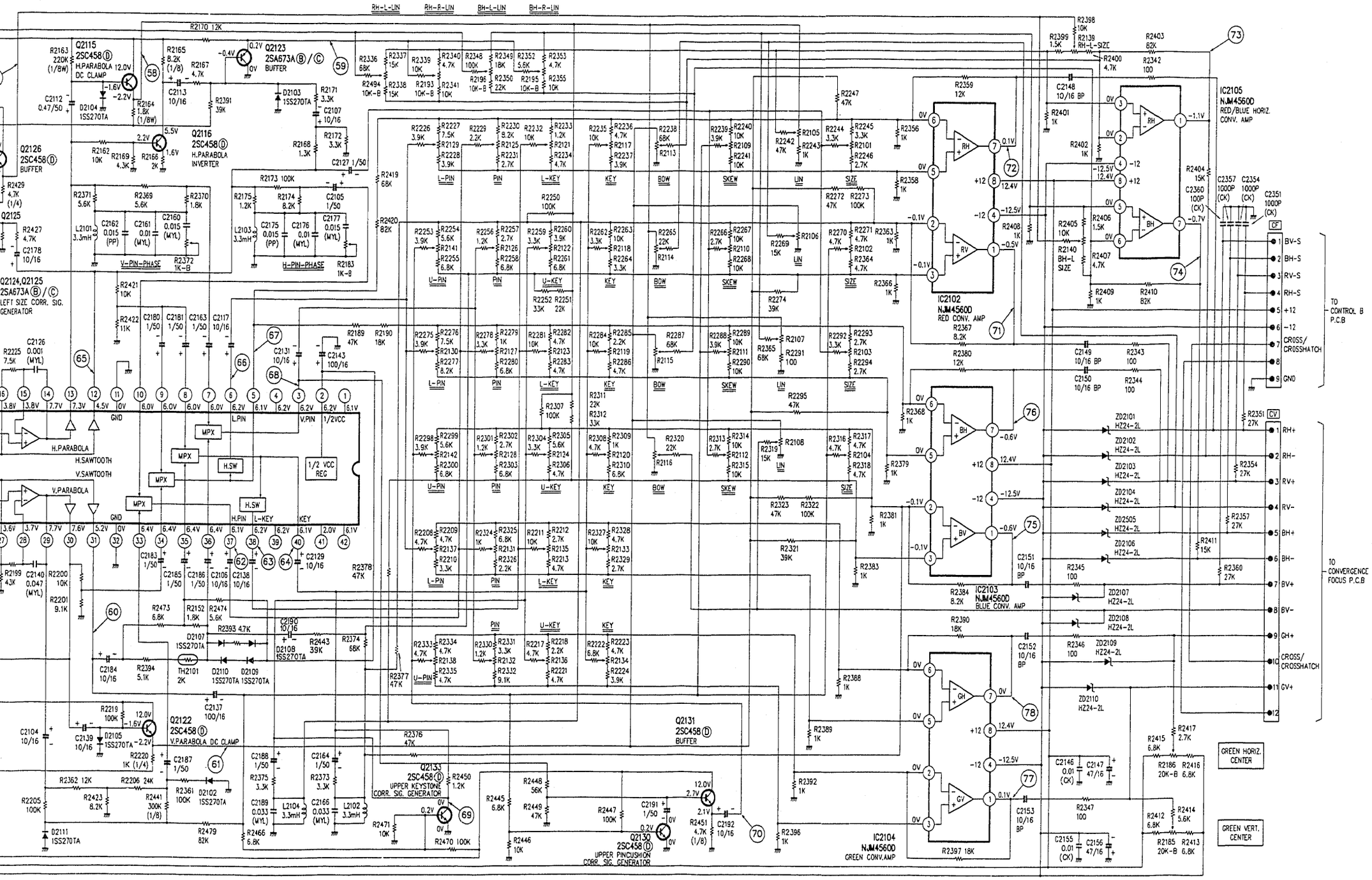
(78) IC2104 (7) PIN



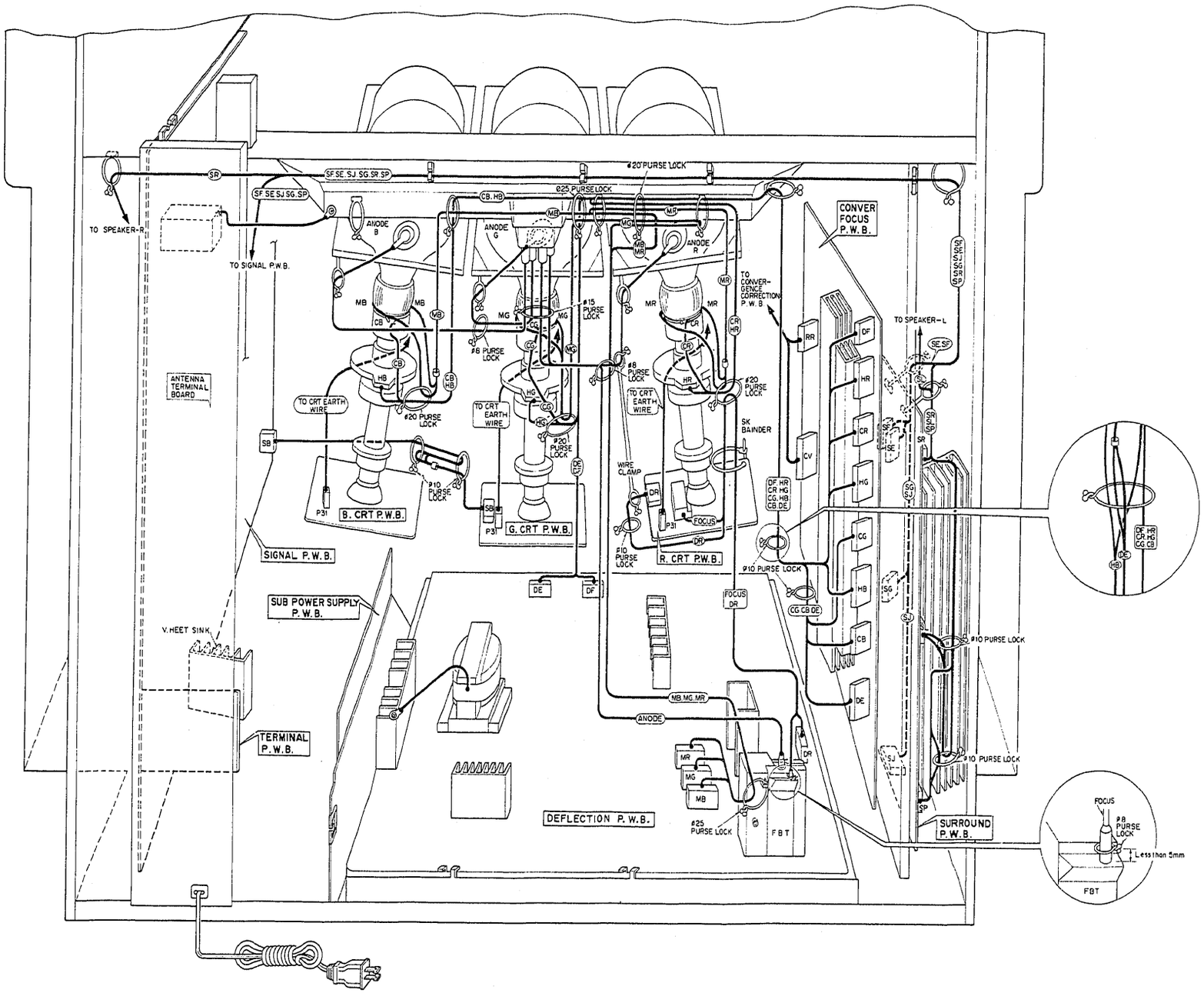
CONVERGENCE CORRECTION CIRCUIT DIAGRAM

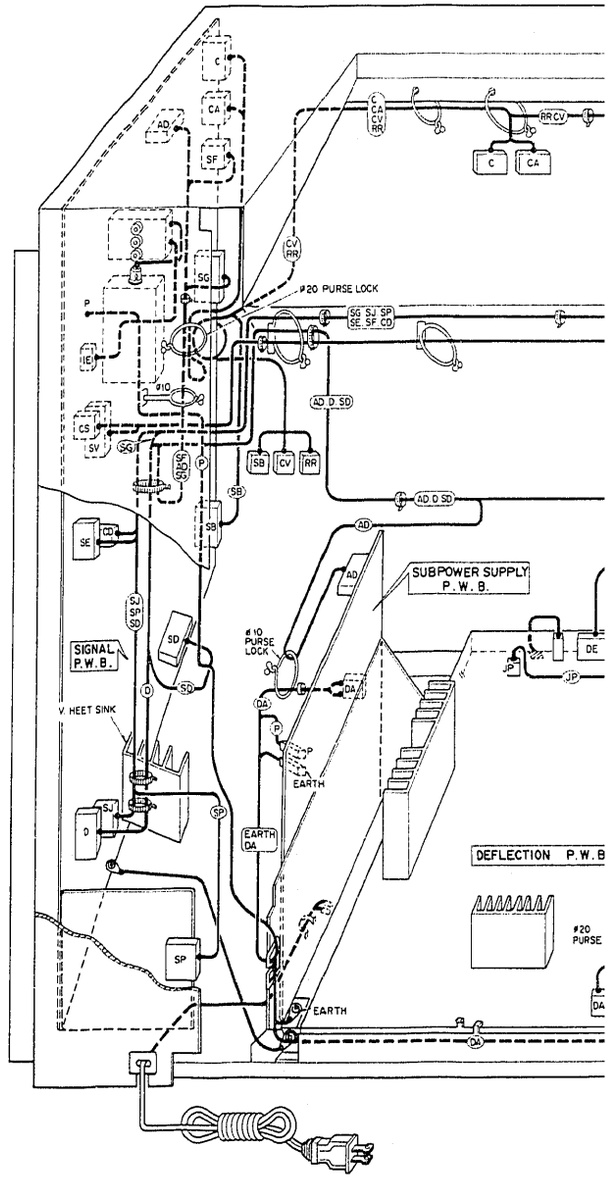


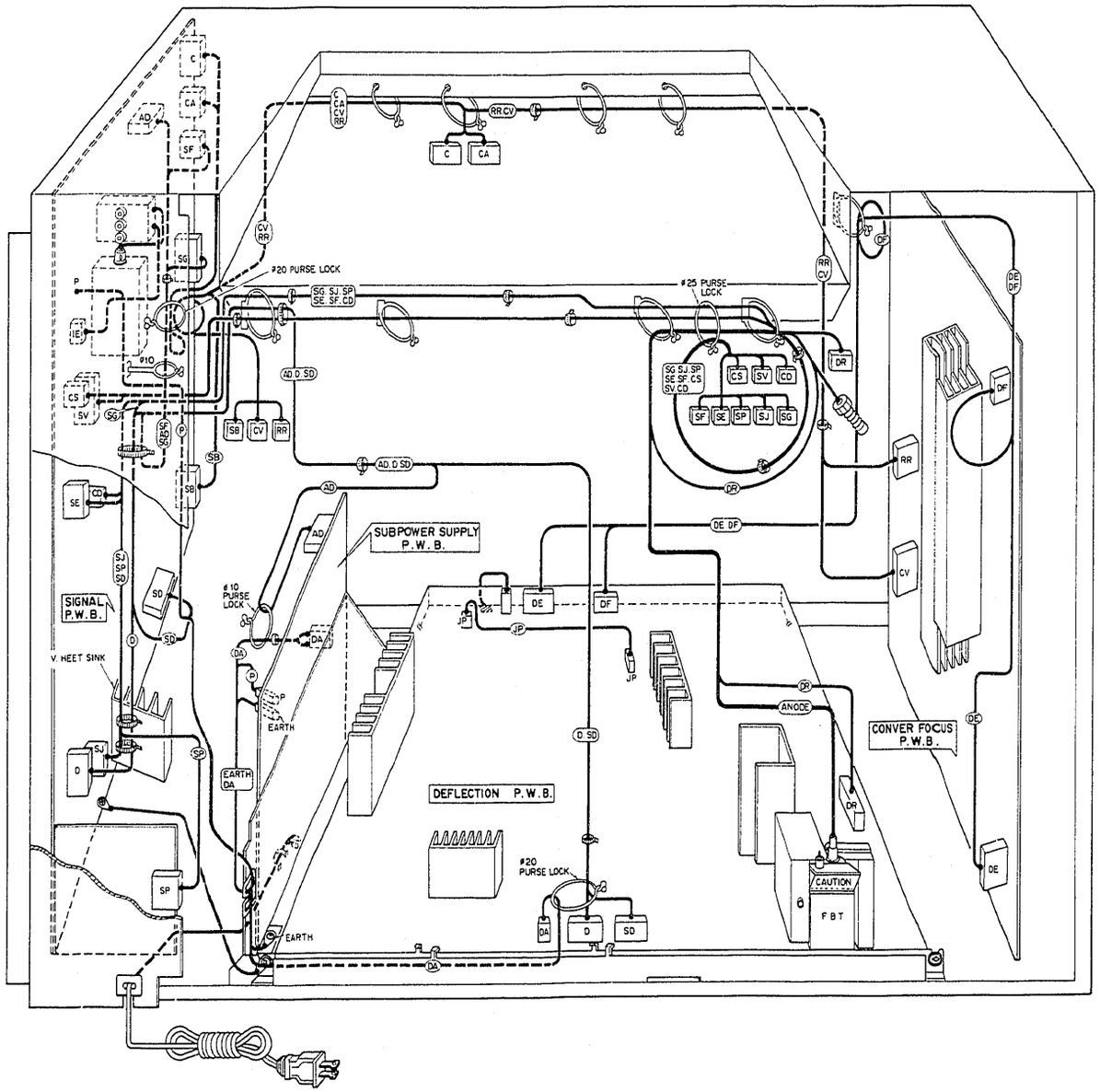
Note: (1) Resistor not designated: 1/16W.
(2) Variable-Resistor not designated: 5K-B.

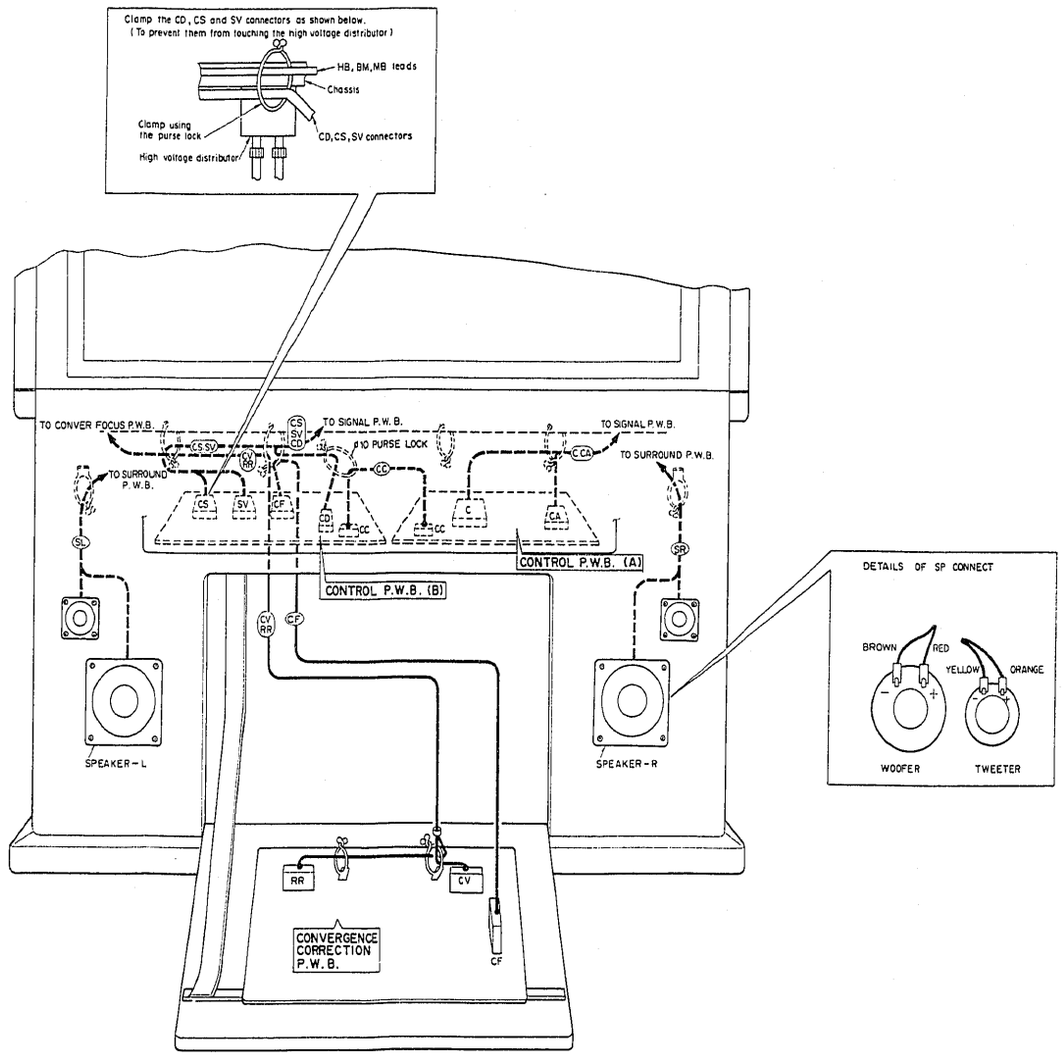

RH-L-LIN
RH-R-LIN
BH-L-LIN
BH-R-LIN
R2170 12K
Q2115 2SC458(D) H.PARABOLA DC CLAMP
Q2123 2SA673A(B)/(C) BUFFER
Q2116 2SC458(D) H.PARABOLA INVERTER
Q2126 2SC458(D) BUFFER
Q2124,Q2125 2SA673A(B)/(C) LEFT SIZE CORR. SIG. GENERATOR
Q2122 2SC458(D) V.PARABOLA DC CLAMP
Q2133 2SC458(D) UPPER KEYSTONE CORR. SIG. GENERATOR
Q2130 2SC458(D) UPPER PINCUSHION CORR. SIG. GENERATOR
Q2131 2SC458(D) BUFFER
IC2105 NJM4560D RED/BLUE HORIZ. CONV. AMP
IC2102 NJM4560D RED CONV. AMP
IC2103 NJM4560D BLUE CONV. AMP
IC2104 NJM4560D GREEN CONV.AMP
H.PARABOLA
H.SAWTOOTH
V.SAWTOOTH
V.PARABOLA
MPX
H.SW
1/2 VCC REG
GND
L-PIN
PIN
L-KEY
KEY
BOW
SKEW
UN
SIZE
U-PIN
U-KEY
V-PIN-PHASE
H-PIN-PHASE
TH2101 2K
TO CONTROL B P.C.B
TO CONVERGENCE FOCUS P.C.B
CROSS/ CROSSHATCH
GREEN HORIZ. CENTER
GREEN VERT. CENTER

WIRING DIAGRAM



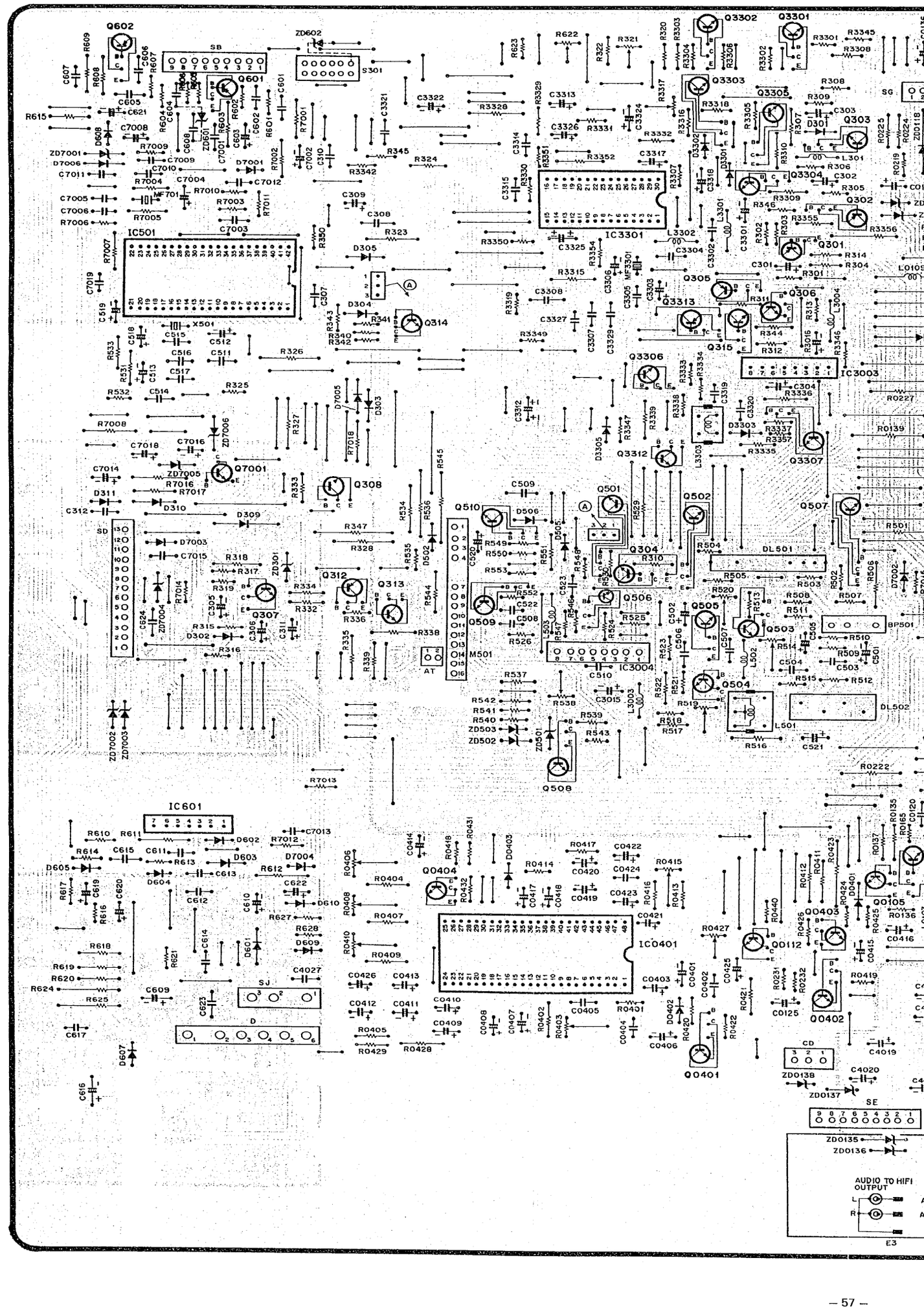


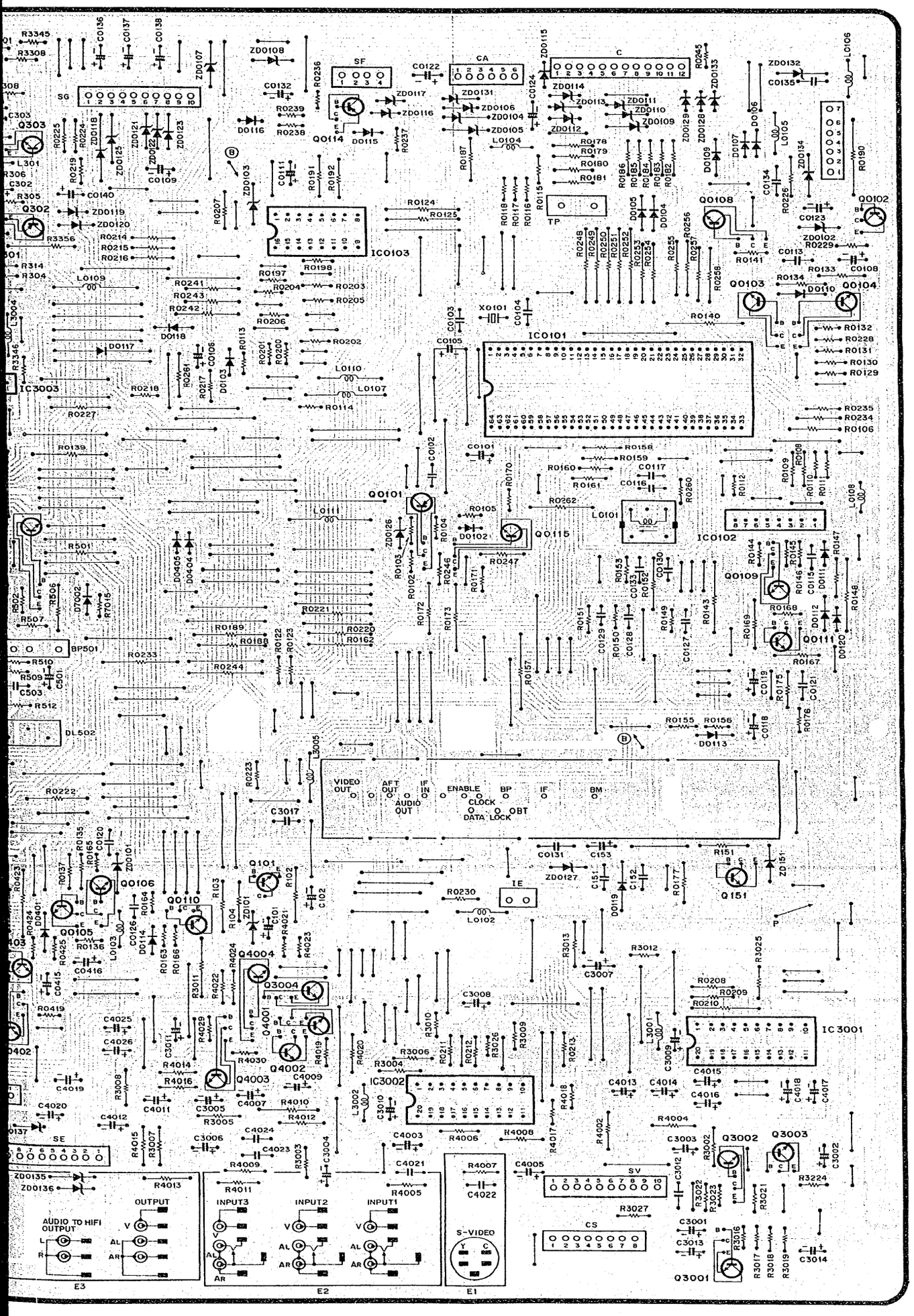

C
CA
AD
SF
RR CV
SG
P
#20 PURSE LOCK
SG SJ SP
SE SF CD
#25 PURSE LOCK
IE
#10
CS
SV
AD D SD
SB
CV
RR
SE
CD
SJ SP SD
SD
SUBPOWER SUPPLY P.W.B.
SIGNAL P.W.B.
#10 PURSE LOCK
HEET SINK
EARTH
DA
D
SJ
SP
DE DF
DE
DF
JP
D SD
DEFLECTION P.W.B.
#20 PURSE LOCK
SD
ANODE
CONVER FOCUS P.W.B.
CAUTION
FBT


Clamp the CD, CS and SV connectors as shown below.
(To prevent them from touching the high voltage distributor)
HB, BM, MB leads
Chassis
Clamp using the purse lock
CD, CS, SV connectors
High voltage distributor
TO CONVER FOCUS P.W.B.
TO SIGNAL P.W.B.
TO SIGNAL P.W.B.
TO SURROUND P.W.B.
TO SURROUND P.W.B.
#10 PURSE LOCK
CONTROL P.W.B. (A)
CONTROL P.W.B. (B)
SPEAKER-L
SPEAKER-R
CONVERGENCE CORRECTION P.W.B.
DETAILS OF SP CONNECT
BROWN
RED
YELLOW
ORANGE
WOOFER
TWEETER

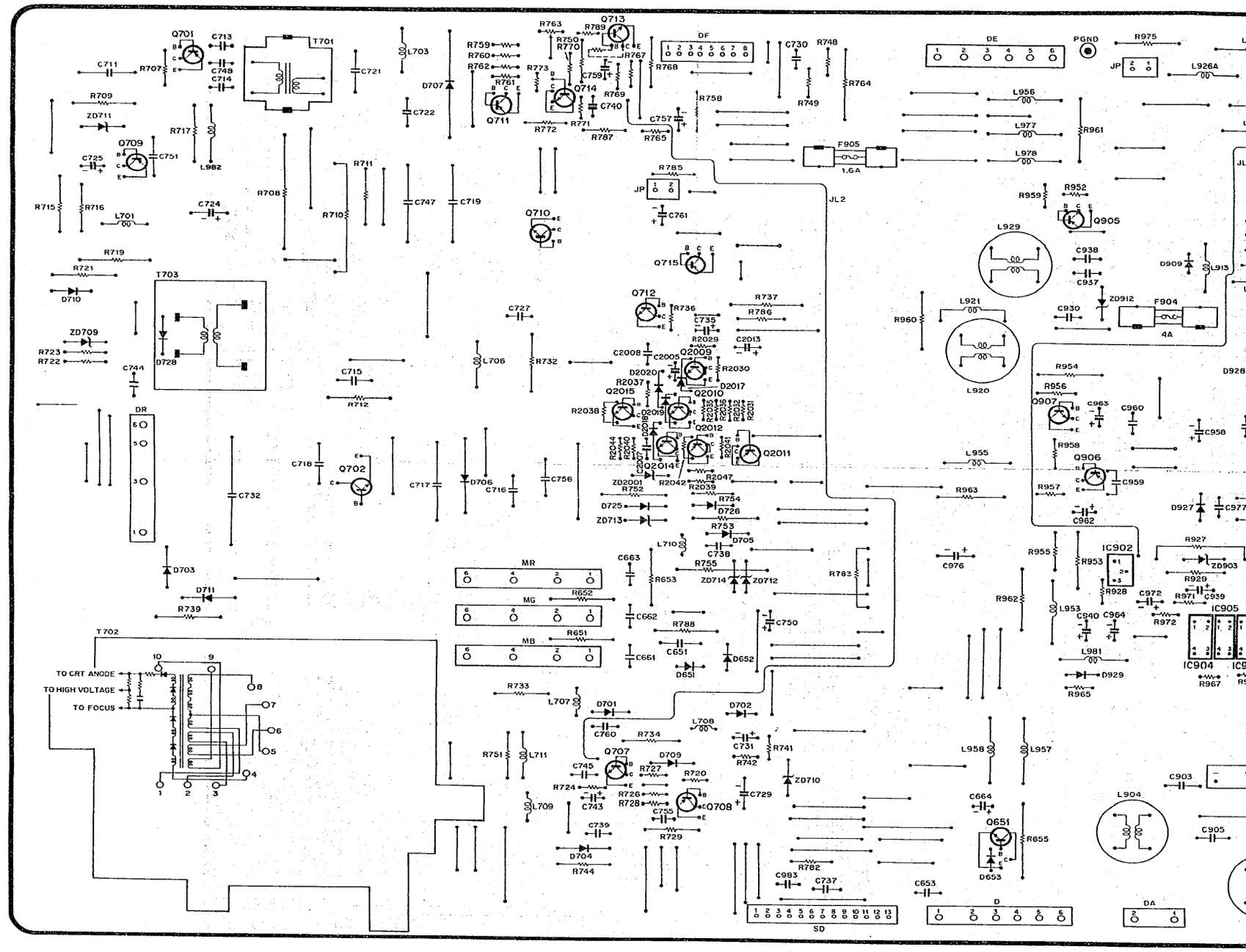
PRINTED CIRCUIT BOARD

SIGNAL P. C. BOARD

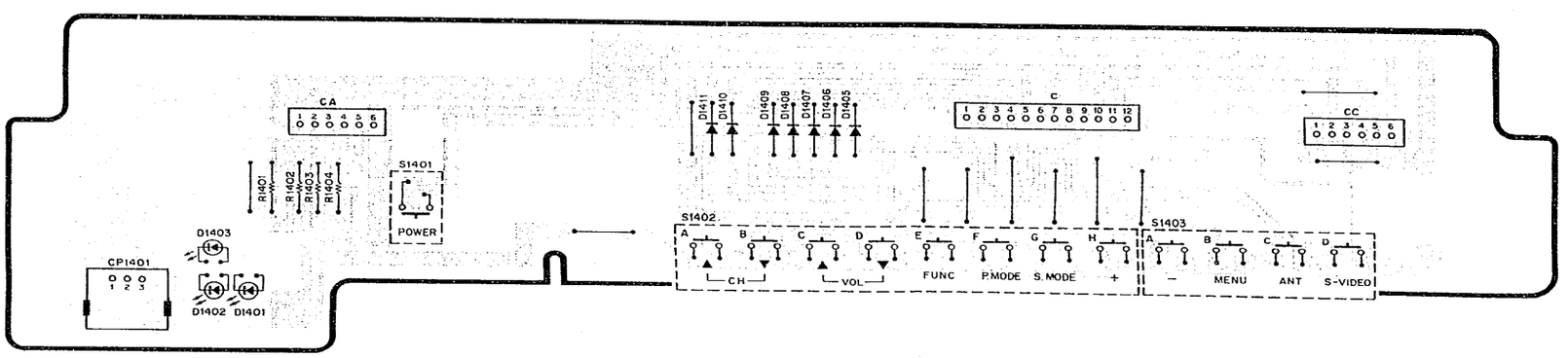


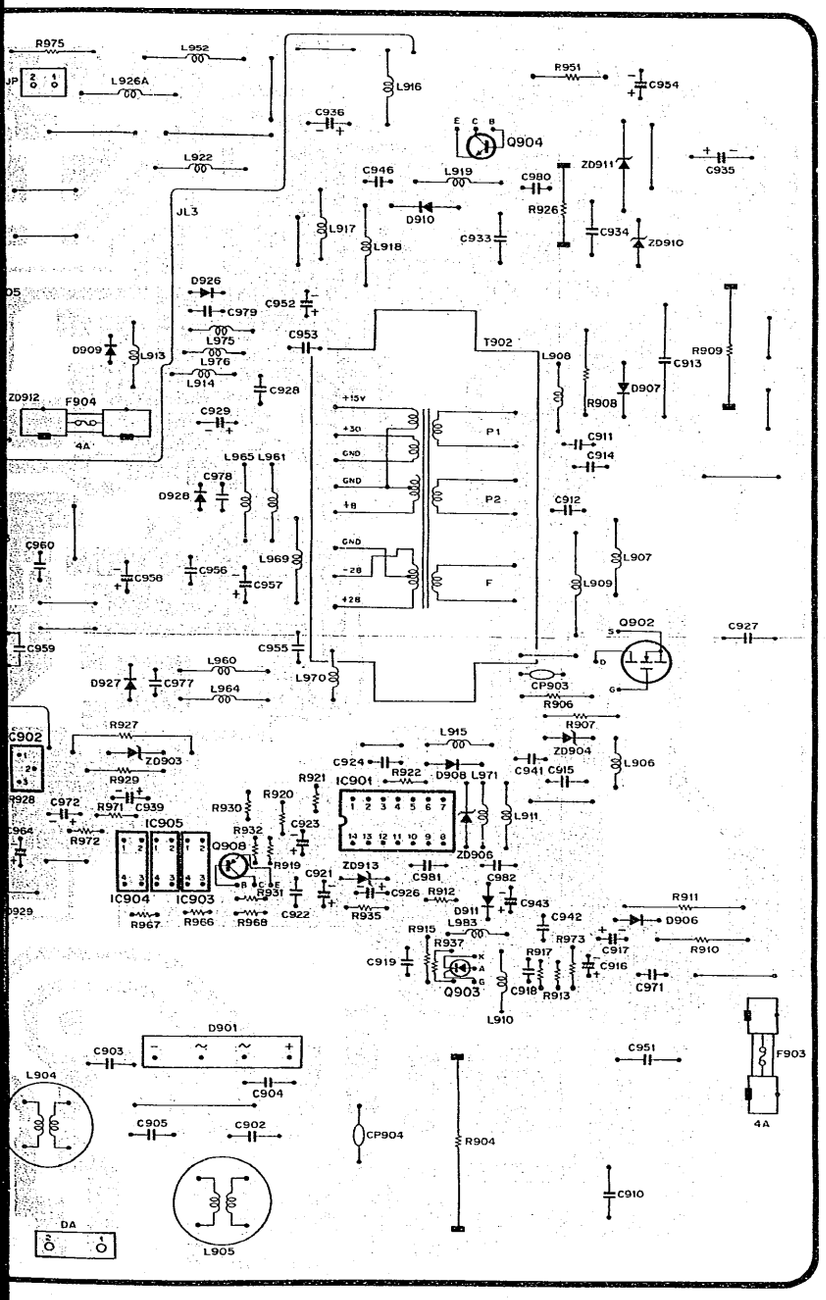

IC0101
IC0102
IC0103
IC3001
IC3002
IC3003
Q0101
Q0102
Q0103
Q0104
Q0105
Q0106
Q0108
Q0109
Q0110
Q0111
Q0114
Q0115
Q101
Q151
Q3001
Q3002
Q3003
Q3004
Q4001
Q4002
Q4003
Q4004
Q303
Q302
SF
SG
CA
C
TP
IE
P
SE
SV
CS
E1
E2
E3
S-VIDEO
AUDIO TO HIFI OUTPUT
OUTPUT
INPUT1
INPUT2
INPUT3
VIDEO OUT
AFT OUT
IF IN
AUDIO OUT
ENABLE
CLOCK
DATA
LOCK
BP
OBT
IF
BM

POWER/DEFLECTION P. C. BOARD

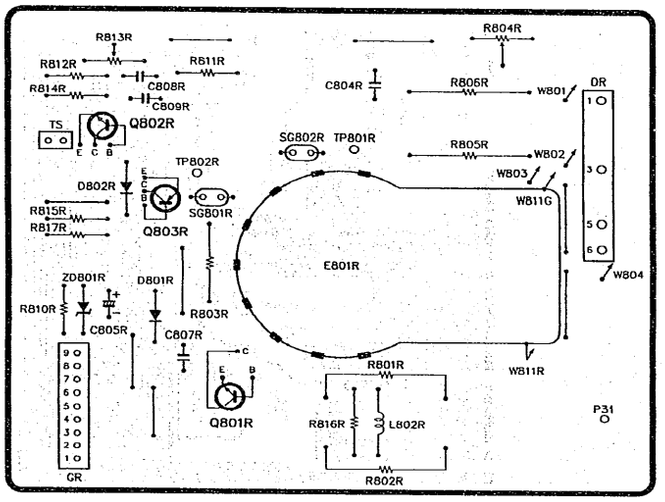


CONTROL (A) P. C. BOARD

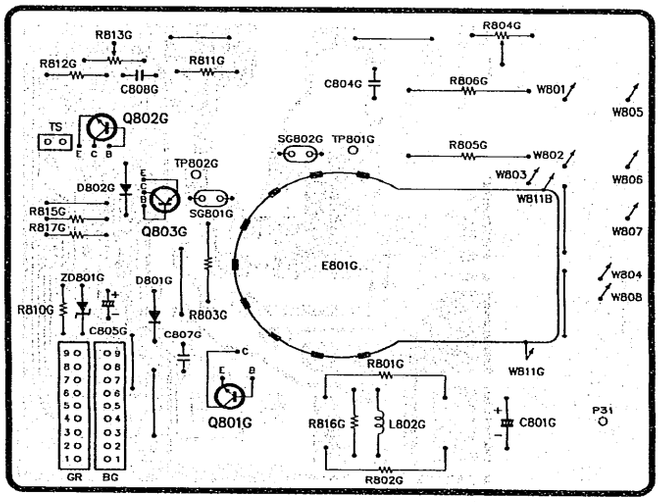




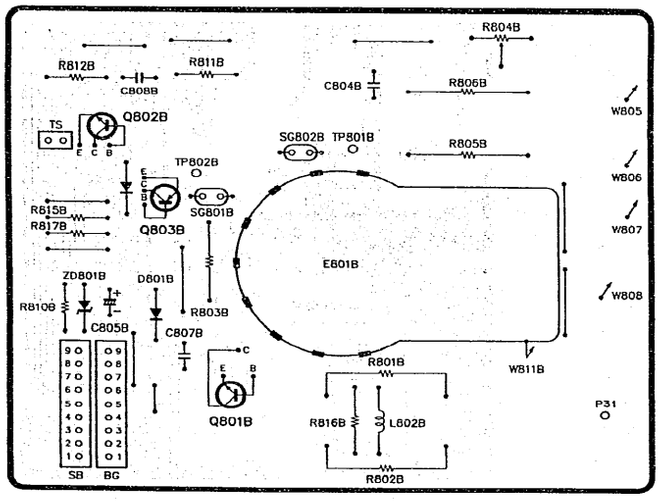
CPT (R) P. C. BOARD



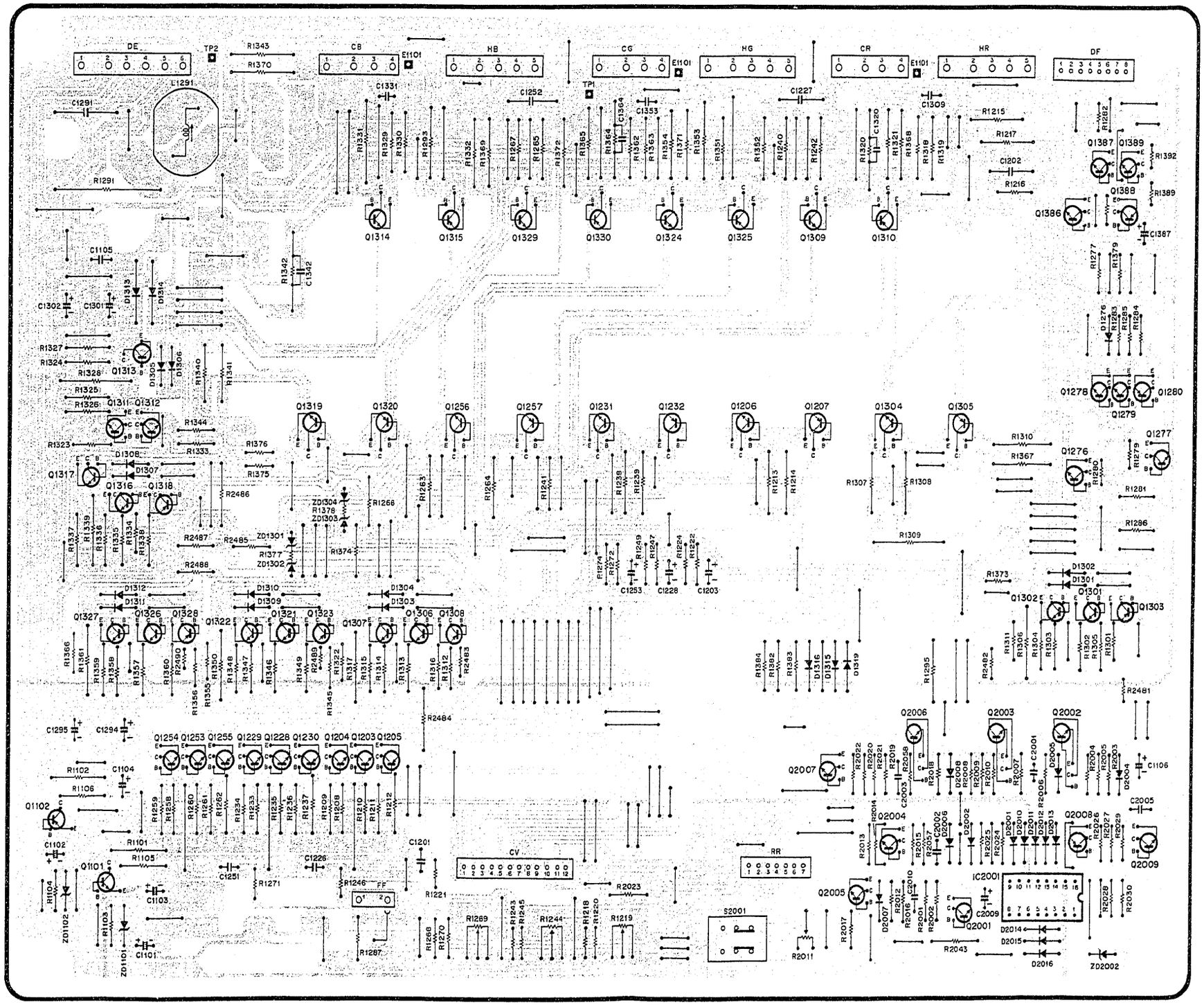
CPT (G) P. C. BOARD



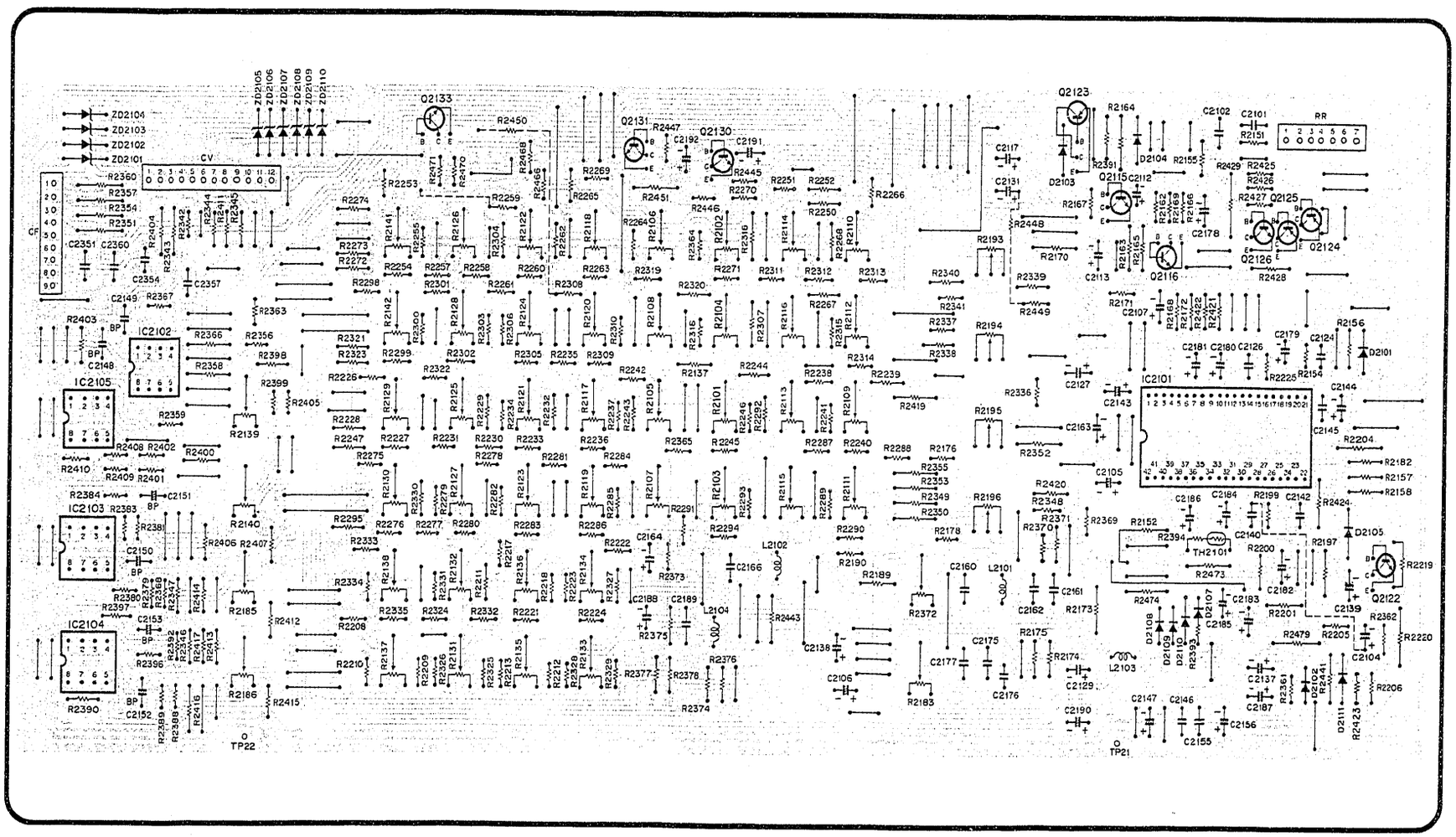
CPT (B) P. C. BOARD



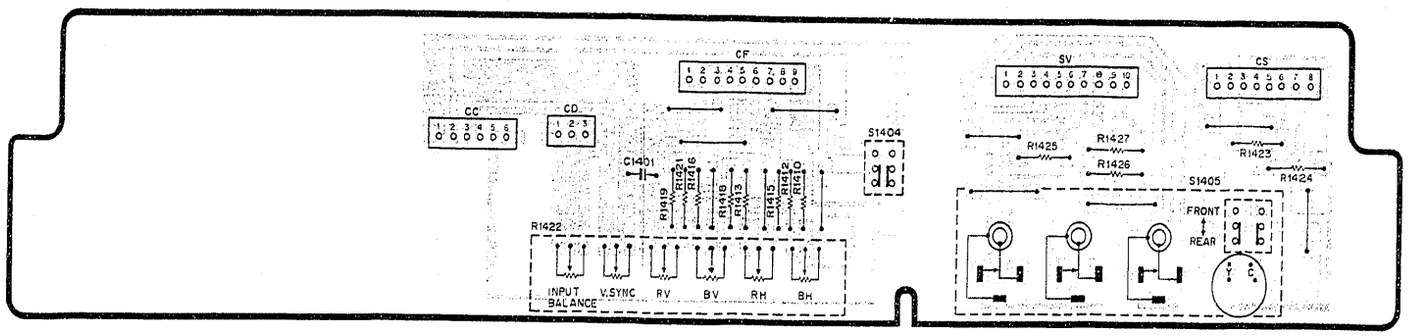
CONVERGENCE FOCUS P. C. BOARD



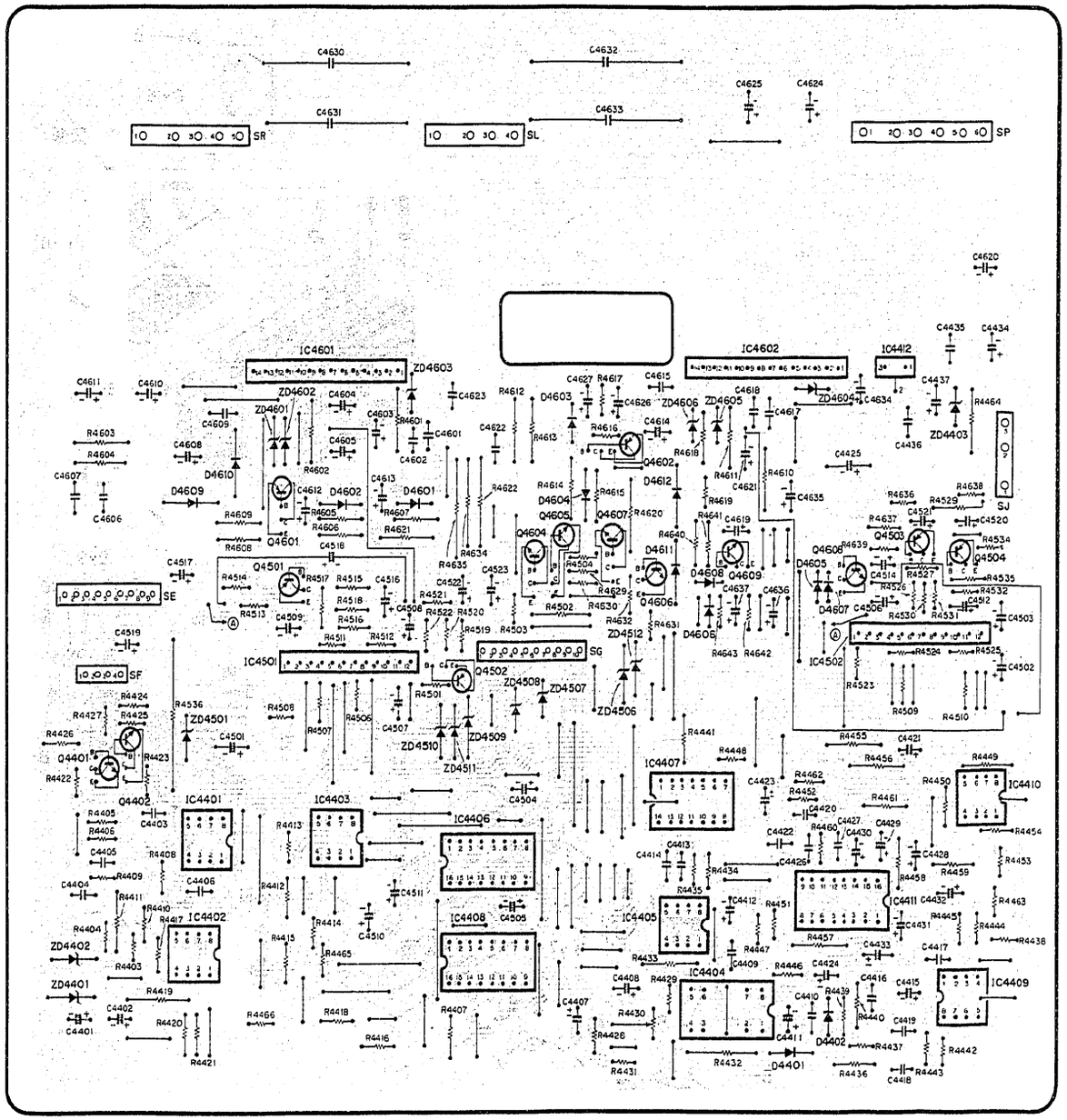
CONVERGENCE CORRECTION P. C. BOARD



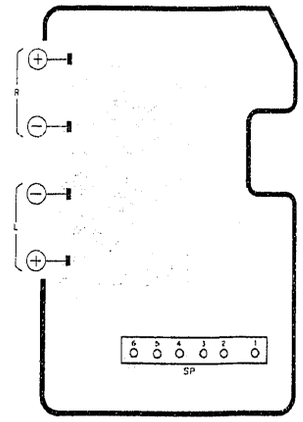
CONTROL (B) P. C. BOARD



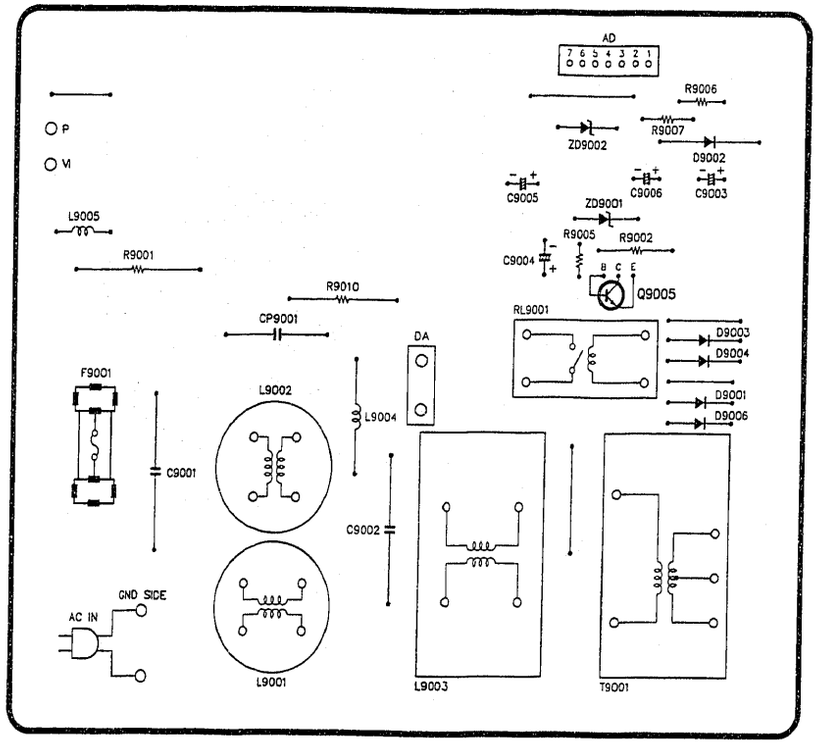
SURROUND P. C. BOARD



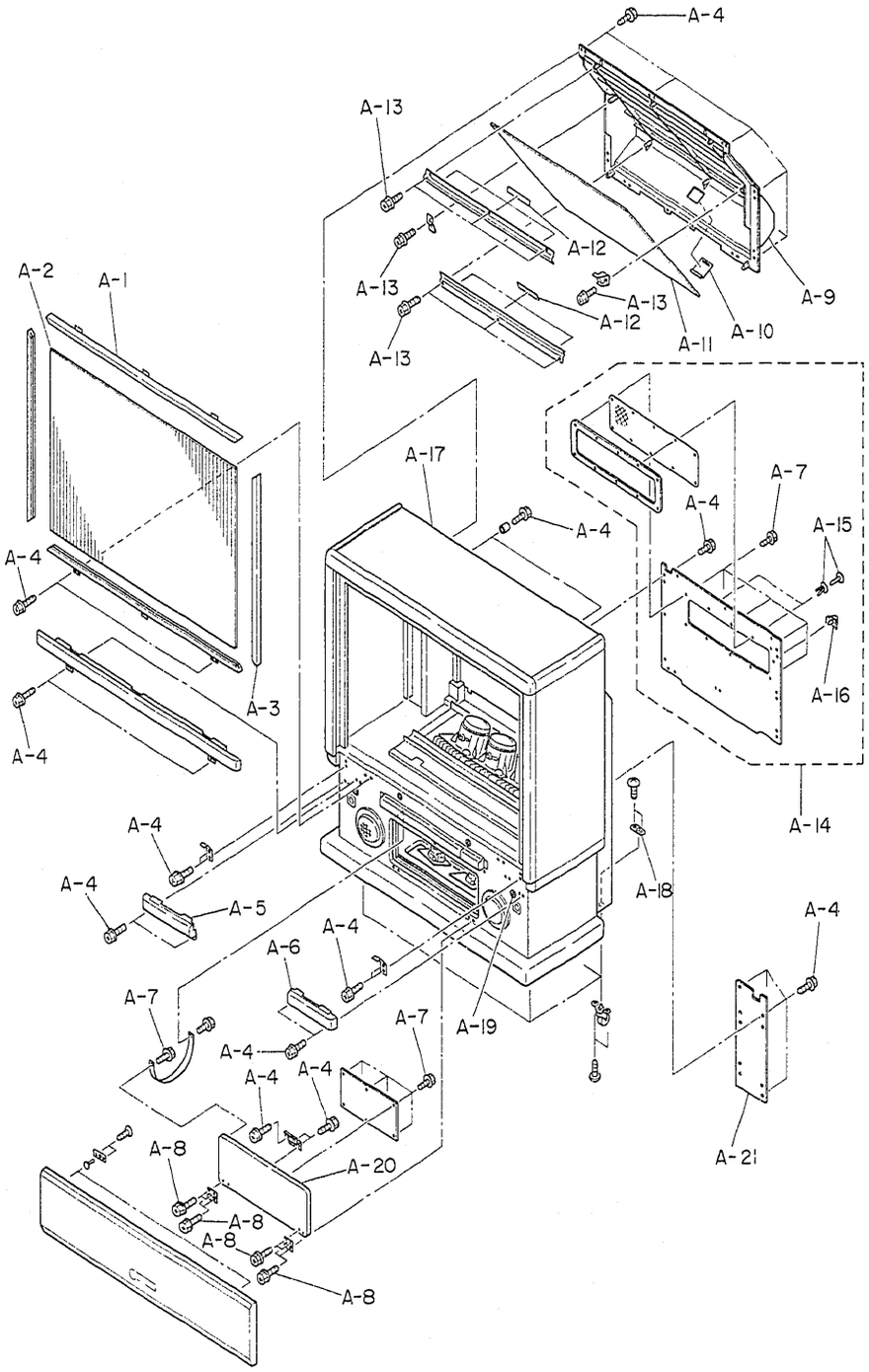
SP TERMINAL P. C. BOARD



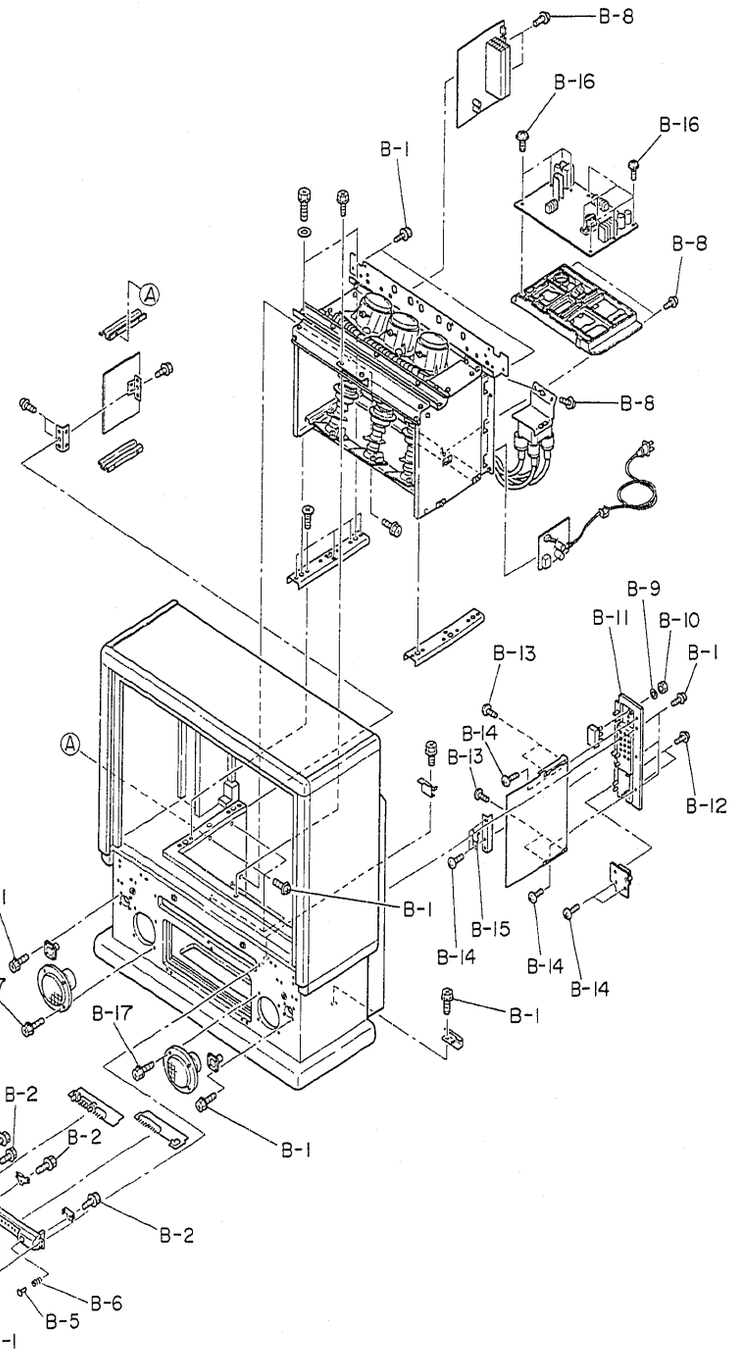
SUB POWER SUPPLY P. C. BOARD



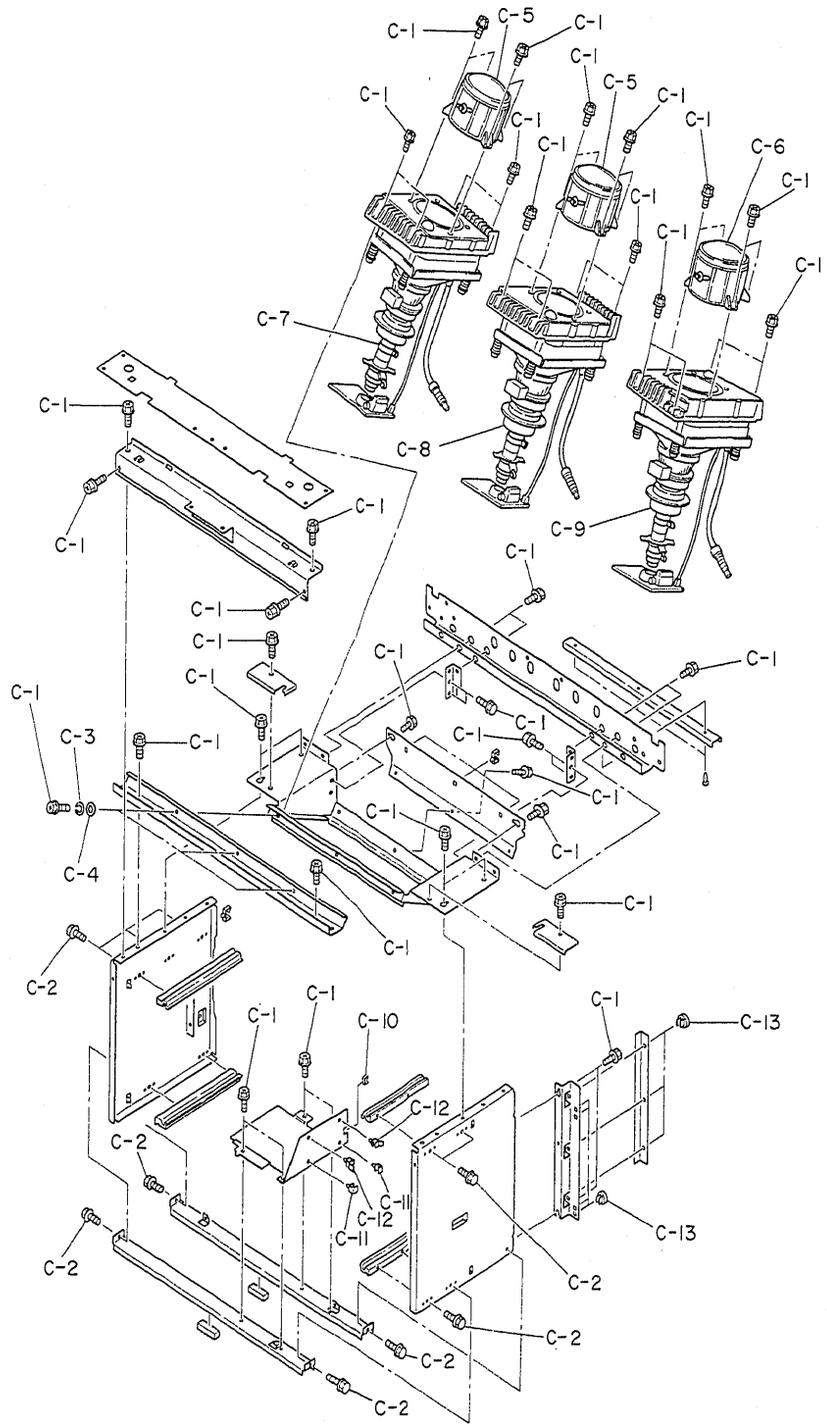
EXPLODED VIEW (1/3)



EXPLODED VIEW (2/3)



EXPLODED VIEW (3/3)



REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver though improper servicing.

ABBREVIATIONS

CAPACITORS ····· CD:CERAMIC DISK, PF:POLYESTER FILM, EL:ELECTROLYTIC, PP:POLYPROPYLENE, PR:PAPER, TA:TANTALUM, TM:TRIMMER

RESISTORS ····· CF: CARBON FILM, CC: CARBON COMPOSITION, MF: METAL OXIDE FILM, VR: VARIABLE RESISTOR, WW:WIRE WOULD, FR: FUSE RESISTOR, MG: METAL GLAZED

SEMICONDUCTOR ····· TR: TRANSISTOR, DI: DIODE, ZD: ZENER DIODE, VA: VARISTOR, TH: THERMISTOR, IC: IC

SYMBOL NO.	PARTS NO.	DESCRIPTION
		CAPACITORS
C001	0243510	CD 560PF ±10% 500V
C0101	0800057	EL 220MF 10V
C0102	0244141	CD 0.01MF ±10% 50V
C0103	0248672	CD 33PF ±5% 50V
C0104	0248672	CD 33PF ±5% 50V
C0105	0800003	EL 1MF 50V
C0106	0800003	EL 1MF 50V
C0108	0800039	EL 47MF 10V
C0109	0800049	EL 100MF 16V
C0111	0800039	EL 47MF 10V
C0113	0244173	CD 0.022MF +80−20% 50V
C0115	0244175	CD 0.047MF +80−20% 50V
C0116	0248676	CD 47PF ±5% 50V
C0117	0248676	CD 47PF ±5% 50V
C0118	0800003	EL 1MF 50V
C0119	0800015	EL 10MF 16V
C0120	0244141	CD 0.01MF ±10% 50V
C0121	0880053	PF 0.047MF ±10% 50V
C0122	0800015	EL 10MF 16V
C0123	0800003	EL 1MF 50V
C0124	0800015	EL 10MF 16V
C0125	0800049	EL 100MF 16V
C0126	0880057	PF 0.1MF ±10% 50V
C0127	0248668	CD 22PF ±5% 50V
C0128	0248668	CD 22PF ±5% 50V
C0129	0248668	CD 22PF ±5% 50V
C0130	0248668	CD 22PF ±5% 50V
C0131	0244141	CD 0.01MF ±10% 50V
C0132	0800023	EL 22MF 16V
C0133	0248684	CD 100PF ±5% 50V
C0134	0244141	CD 0.01MF ±10% 50V
C0135	0244115	CD 560PF ±10% 50V
C0136	0880015	EL 10MF 16V
C0137	0880015	EL 10MF 16V
C0138	0880015	EL 10MF 16V
C0140	0800003	EL 1MF 50V
C0401	0800049	EL 100MF 16V
C0402	0244173	CD 0.022MF +80−20% 50V
C0403	02528051	EL 0.1MF 50V
C0404	0244139	CD 1000PF ±10% 50V
C0405	0800057	PF 0.1MF ±10% 50V
C0406	0800001	EL 0.47MF 50V
C0407	0800015	EL 10MF 16V
C0408	0800015	EL 10MF 16V
C0409	0800001	EL 0.47MF 50V
C0410	0800001	EL 0.47MF 50V
C0411	0800001	EL 0.47MF 50V
C0412	0800007	EL 3.3MF 50V
C0413	0800003	EL 1MF 50V
C0414	0800015	EL 10MF 16V
C0415	0800015	EL 10MF 16V
C0416	0800015	EL 10MF 16V
C0417	0800015	EL 10MF 16V
C0418	0800005	EL 2.2MF 50V
C0419	0800007	EL 3.3MF 50V
C0420	0800009	EL 4.7MF 25V
C0421	0800003	EL 1MF 50V
C0422	0800049	EL 100MF 16V
C0423	0800023	EL 22MF 16V
C0424	0880048	PF 0.022MF ±10% 50V
C0425	0800015	EL 10MF 16V
C0426	02528051	EL 0.1MF 50V
C101	0800041	EL 47MF 16V
C102	0800015	EL 10MF 16V
C1101	0800007	EL 3.3MF 50V
C1102	0800007	EL 3.3MF 50V
C1103	0800049	EL 100MF 16V
C1104	0800049	EL 100MF 16V
C1105	0275811F	PF 1000PF ±10% 100V
C1106	0800041	EL 47MF 16V
C1201	0244175	CD 0.047MF +80−20% 50V
C1202	0277033	PF 0.47MF±10% 50V
C1203	0800018	EL 10MF 50V
C1226	0244175	CD 0.047MF +80−20% 50V
C1227	0277033	PF 0.47MF ±10% 50V
C1228	0800018	EL 10MF 50V
C1251	0244175	CD 0.047MF +80−20% 50V
C1252	0277033	PF 0.47 ±10% 50V
C1253	0800018	EL 10MF 50V
C1291	0299624	PP 0.015MF ±5% 630V
C1294	0800069	EL 330MF 50V
C1295	0800069	EL 330MF 50V

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver though improper servicing.

SYMBOL NO.	PARTS NO.	DESCRIPTION
C1301	0800069	EL 330MF 50V
C1302	0800069	EL 330MF 50V
C1309	0243509	CD 470PF ±10% 500V
C1320	0244505	CD 2200PF ±10% 500V
C1331	0243509	CD 470PF ±10% 500V
C1342	0244505	CD 2200PF ±10% 500V
C1353	0243509	CD 470PF ±10% 500V
C1364	0244505	CD 2200PF ±10% 500V
C1387	0800059	EL 220MF 25V
C1401	0277013	PF 0.01MF ±10% 50V
C151	0244141	CD 0.01MF ±10% 50V
C152	0244105	CD 2200PF ±10% 50V
C153	0800049	EL 100MF 16V
C2001	0244118	CD 470PF ±10% 50V
C2002	0880003	PF 1000PF ±10% 50V
C2003	0248672	CD 33PF ±5% 50V
C2005	0251089	EL 4.7MF 25V
C2006	0880009	PF 0.01MF ±10% 50V
C2007	0274669	PF 0.033MF ±5% 50V
C2008	0248698	CD 560PF ±5% 50V
C2009	0800041	EL 47MF 16V
C2010	0244117	CD 680PF ±10% 50V
C2013	0800003	EL 1MF 50V
C2101	0244136	CD 270PF ±10% 50V
C2102	0244136	CD 270PF ±10% 50V
C2104	0800015	EL 10MF 16V
C2105	0800003	EL 1MF 50V
C2106	0800015	EL 10MF 16V
C2107	0800015	EL 10MF 16V
C2112	0800001	EL 0.47MF 50V
C2113	0800015	EL 10MF 16V
C2117	0800015	EL 10MF 16V
C2124	0880005	PF 2200PF ±10% 50V
C2126	0880003	PF 1000MF ±10% 50V
C2127	0800003	EL 1MF 50V
C2129	0800015	EL 10MF 16V
C2131	0800015	EL 10MF 16V
C2137	0800049	EL 100MF 16V
C2138	0800015	EL 10MF 16V
C2139	0800015	EL 10MF 16V
C2140	0880014	PF 0.047MF ±10% 50V
C2142	0880016	PF 0.1MF ±10% 50V
C2143	0800049	EL 100MF 16V
C2144	0800041	EL 47MF 16V
C2145	0244141	CD 0.01MF ±10% 50V
C2146	0244141	CD 0.01MF ±10% 50V
C2147	0800041	EL 47MF 16V
C2148	0252396	EL 10MF 16V
C2149	0252396	EL 10MF 16V
C2150	0252396	EL 10MF 16V
C2151	0252396	EL 10MF 16V
C2152	0252396	EL 10MF 16V
C2153	0252396	EL 10MF 16V
C2155	0244141	CD 0.01MF ±10% 50V
C2156	0800044	EL 47MF 50V
C2160	0880011	PF 0.015MF 50V ±10%
C2161	0880009	PF 0.01MF ±10% 50V
C2162	0299029	PP 0.015MF ±2% 100V
C2163	0800003	EL 1MF 50V
C2164	0800003	EL 1MF 50V
C2166	0880013	PF 0.033MF ±10% 50V
C2175	0299029	PP 0.015MF ±2% 100V
C2176	0880009	PF 0.01MF ±10% 50V
C2177	0880011	PF 0.015MF 50V ±10%
C2178	0800015	EL 10MF 16V
C2179	0800003	EL 1MF 50V
C2180	0800003	EL 1MF 50V
C2181	0800003	EL 1MF 50V
C2182	0800015	EL 10MF 16V
C2183	0800003	EL 1MF 50V
C2184	0800015	EL 10MF 16V
C2185	0800003	EL 1MF 50V
C2186	0800003	EL 1MF 50V
C2187	0800003	EL 1MF 50V
C2188	0800003	EL 1MF 50V
C2189	0880013	PF 0.033MF ±10% 50V
C2190	0800015	EL 10MF 16V
C2191	0800003	EL 1MF 50V
C2192	0800015	EL 10MF 16V
C2351	0244139	CD 1000PF ±10% 50V
C2354	0244139	CD 1000PF ±10% 50V
C2357	0244139	CD 1000PF ±10% 50V
C2360	0244139	CD 1000PF ±10% 50V
C3001	0800041	EL 47MF 16V
C3002	0800015	EL 10MF 16V
C3003	0800041	EL 47MF 16V
C3004	0800041	EL 47MF 16V
C3005	0800041	EL 47MF 16V
C3006	0800074	EL 470MF 16V
C3007	0800015	EL 10MF 16V
C3008	0800015	EL 10MF 16V
C3009	0800023	EL 22MF 16V
C301	0800007	EL 3.3MF 50V
C3010	0800023	EL 22MF 16V
C3011	0800049	EL 100MF 16V
C3012	0244141	CD 0.01MF ±10% 50V
C3013	0800015	EL 10MF 16V
C3014	0800015	EL 10MF 16V
C3015	0800049	EL 100MF 16V
C3016	0800049	EL 100MF 16V
C3017	0246442	CD 12PF ±5% 50V
C302	0800009	EL 4.7MF 25V
C303	0800049	EL 100MF 16V

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
C304	0800032	EL 33MF 16V	C4026	0800015	EL 10MF 16V
C305	0800015	EL 10MF 16V	C4027	0880018	PF 0.22MF ±10% 50V
C306	0800015	EL 10MF 16V	C4401	0800016	EL 10MF 25V
C307	0244141	CD 0.01MF ±10% 50V	C4402	0800016	EL 10MF 25V
C308	0244141	CD 0.01MF ±10% 50V	C4403	0248688	CD 150PF ±5% 50V
C309	0253942	EL 0.22MF 50V	C4404	0244105	CD 2200PF ±10% 50V
C310	0244141	CD 0.01MF ±10% 50V	C4405	0248684	CD 100PF ±5% 50V
C311	0800015	EL 10MF 16V	C4406	0248684	CD 100PF ±5% 50V
C312	0244117	CD 680PF ±10% 50V	C4407	0252417	EL 1MF 50V
C3301	0800049	EL 100MF 16V	C4408	0800003	EL 1MF 50V
C3302	0244141	CD 0.01MF ±10% 50V	C4409	0244171	CD 0.01MF +80−20% 50V
C3303	0800049	EL 100MF 16V	C4410	0880044	PF 0.01MF ±10% 50V
C3304	0244141	CD 0.01MF ±10% 50V	C4411	0800042	EL 47MF 25V
C3305	0246442	CD 12PF ±5% 50V	C4412	0800009	EL 4.7MF 25V
C3306	0800003	EL 1MF 50V	C4413	0248676	CD 47PF ±5% 50V
C3307	0880009	PF 0.01MF ±10% 50V	C4414	0248672	CD 33PF ±5% 50V
C3308	0880009	PF 0.01MF ±10% 50V	C4415	0800003	EL 1MF 50V
C3312	0252417	EL 1MF 50V	C4416	0244139	CD 1000PF ±10% 50V
C3313	0800003	EL 1MF 50V	C4417	0249093	CD 470PF ±5% 50V
C3314	0244115	CD 560PF ±10% 50V	C4418	02792111	PF 5600PF 50V
C3315	0244139	CD 1000PF ±10% 50V	C4419	0244109	CD 4700PF ±10% 50V
C3317	0800015	EL 10MF 16V	C4420	02792111	PF 5600PF 50V
C3318	0800015	EL 10MF 16V	C4421	0800049	EL 100MF 16V
C3319	0246418	CD 8PF ±0.25PF 50V	C4422	0274668R	PF 0.027MF ±5% 50V
C3320	0246418	CD 8PF ±0.25PF 50V	C4423	0252417	EL 1MF 50V
C3321	0880016	PF 0.1MF ±10% 50V	C4424	0252410	EL 10MF
C3322	0800015	EL 10MF 16V	C4425	0259411F	EL 3300MF 50V
C3324	0800023	EL 22MF 16V	C4426	0274659	PF 4700PF ±5% 50V
C3325	0252396	EL 10MF 16V	C4427	0274671	PF 0.047MF 50V
C3326	0800003	EL 1MF 50V	C4428	0800101	EL 0.1MF 50V
C3327	0244141	CD 0.01MF ±10% 50V	C4429	0800105	EL 0.33MF ±20% 50V
C3329	0880009	PF 0.01MF ±10% 50V	C4430	0800016	EL 10MF 25V
C4003	0800005	EL 2.2MF 50V	C4431	0800051	EL 100MF 25V
C4005	0800005	EL 2.2MF 50V	C4432	0800059	EL 220MF 25V
C4007	0800005	EL 2.2MF 50V	C4433	0252417	EL 1MF 50V
C4009	0800005	EL 2.2MF 50V	C4434	0800053	EL 100MF 50V
C4011	0800015	EL 10MF 16V	C4435	0276247	PF 0.33MF ±5% 50V
C4012	0800015	EL 10MF 16V	C4436	0880057	PF 0.1MF ±10% 50V
C4013	0800005	EL 2.2MF 50V	C4437	0800051	EL 100MF 25V
C4014	0800005	EL 2.2MF 50V	C4501	0252953	EL 4700MF 16V
C4015	0800005	EL 2.2MF 50V	C4502	0800015	EL 10MF 16V
C4016	0800005	EL 2.2MF 50V	C4503	0252806	EL 0.22MF 50V
C4017	0800015	EL 10MF 16V	C4504	0800016	EL 10MF 25V
C4018	0800015	EL 10MF 16V	C4505	0800016	EL 10MF 25V
C4019	0800015	EL 10MF 16V	C4506	0252806	EL 0.22MF 50V
C4020	0800015	EL 10MF 16V	C4507	0800015	EL 10MF 16V
C4021	0248684	CD 100PF ±5% 50V	C4508	0252806	EL 0.22MF 50V
C4022	0248684	CD 100PF ±5% 50V	C4509	0252806	EL 0.22MF 50V
C4023	0248684	CD 100PF ±5% 50V	C4510	0800016	EL 10MF 25V
C4024	0248684	CD 100PF ±5% 50V	C4511	0800016	EL 10MF 25V
C4025	0800015	EL 10MF 16V	C4512	0800041	EL 47MF 16V

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
C4514	0800041	EL 47MF 16V	C508	0248664	CD 15PF ±5% 50V
C4516	0800041	EL 47MF 16V	C509	0244141	CD 0.01MF ±10% 50V
C4517	0800016	EL 10MF 25V	C510	0244141	CD 0.01MF ±10% 50V
C4518	0800041	EL 47MF 16V	C511	0244141	CD 0.01MF ±10% 50V
C4519	0800016	EL 10MF 25V	C512	0800049	EL 100MF 16V
C4520	0800016	EL 10MF 25V	C513	0800005	EL 2.2MF 50V
C4521	0800016	EL 10MF 25V	C514	0244141	CD 0.01MF ±10% 50V
C4522	0800016	EL 10MF 25V	C515	0246443	CD 13PF ±5% 50V
C4523	0800016	EL 10MF 25V	C516	0244141	CD 0.01MF ±10% 50V
C4601	0244111	CD 6800PF ±10% 50V	C517	0244141	CD 0.01MF ±10% 50V
C4602	0244111	CD 6800PF ±10% 50V	C518	0800001	EL 0.47MF 50V
C4603	0800051	EL 100MF 25V	C519	0800003	EL 1MF 50V
C4604	0800067	EL 330MF 25V	C520	0800015	EL 10MF 16V
C4605	0800051	PF 100MF 25V	C521	0800049	EL 100MF 16V
C4606	0880057	PF 0.1MF ±10% 50V	C522	0274763	PF 0.01MF ±10% 50V
C4607	0880057	PF 0.1MF ±10% 50V	C523	0880009	PF 0.01MF ±10% 50V
C4608	0800077	EL 470MF 50V	C601	0880053	PF 0.047MF ±10% 50V
C4609	0244171	CD 0.01MF +80−20% 50V	C602	0880044	PF 0.01MF ±10% 50V
C4610	0800083	EL 1000MF 25V	C603	0800015	EL 10MF 16V
C4611	0800083	EL 1000MF 25V	C604	0880035	PF 2200PF ±10% 50V
C4612	0800003	EL 1MF 50V	C605	0880037	PF 3300PF ±10% 50V
C4613	0800049	EL 100MF 16V	C606	0880057	PF 0.1MF±10% 50V
C4614	0800077	EL 470MF 50V	C607	0880031	PF 1000PF ±10% 50V
C4615	0244171	CD 0.01MF +80−20% 50V	C608	0880009	PF 0.01MF ±10% 50V
C4617	0244111	CD 6800PF ±10% 50V	C609	0800044	EL 47MF 50V
C4618	0244111	CD 6800PF ±10% 50V	C610	0800069	EL 330MF 50V
C4619	0800051	EL 100MF 25V	C611	0880055	PF 0.068MF ±10% 50V
C4620	0800067	EL 330MF 25V	C612	0880031	PF 1000PF ±10% 50V
C4621	0800051	EL 100MF 25V	C613	0248668	CD 22PF ±5% 50V
C4622	0880057	PF 0.1MF ±10% 50V	C614	0244141	CD 0.01MF ±10% 50V
C4623	0880057	PF 0.1MF ±10% 50V	C615	0880055	PF 0.068MF ±10% 50V
C4624	0800083	EL 1000MF 25V	C616	0252969	EL 2200MF 25V
C4625	0800083	EL 1000MF 25V	C617	0880019	PF 0.33MF ±10% 50V
C4626	0800049	EL 100MF 16V	C619	0800007	EL 3.3MF 50V
C4627	0800003	EL 1MF 50V	C620	0800001	EL 0.47MF 50V
C4630	0257048	EL 2.2MF 25V	C621	0292716	TA 1MF ±10% 20V
C4631	0257048	EL 2.2MF 25V	C622	0800003	EL 1MF 50V
C4632	0257048	EL 2.2MF 25V	C623	0244141	CD 0.01MF ±10% 50V
C4633	0257048	EL 2.2MF 25V	C624	0244139	CD 1000PF ±10% 50V
C4634	0800016	EL 10MF 25V	C651	0279859	PF 0.1MF ±10% 100V
C4635	0800016	EL 10MF 25V	C653	0244139	CD 1000PF ±10% 50V
C4636	0800041	EL 47MF 16V	C661	0880018	PF 0.22MF ±10% 50V
C4637	0800041	EL 47MF 16V	C662	0880018	PF 0.22MF ±10% 50V
C4638	0800041	EL 47MF 16V	C663	0880018	PF 0.22MF ±10% 50V
C501	0800041	EL 47MF 16V	C664	0800076	EL 470MF 31.5V
C502	0800049	EL 100MF 16V	C7001	0244115	CD 560PF ±10% 50V
C503	0248674	CD 39PF ±5% 50V	C7002	0800003	EL 1MF 50V
C504	0244141	CD 0.01MF ±10% 50V	C7003	0244105	CD 2200PF ±10% 50V
C505	0800015	EL 10MF 16V	C7004	0800003	EL 1MF 50V
C506	0244141	CD 0.01MF ±10% 50V	C7005	0880048	PF 0.022MF ±10% 50V
C507	0248682	CD 82PF ±5% 50V	C7006	0880004	PF 1500PF ±10% 50V

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
C7008	0800049	EL 100MF 16V	C805B	0800049	EL 100MF 16V
C7009	0244136	CD 270PF ±10% 50V	C805G	0800049	EL 100MF 16V
C7010	0880053	PF 0.047MF ±10% 50V	C805R	0800049	EL 100MF 16V
C7011	0880048	PF 0.022MF ±10% 50V	C807B	0244105	CD 2200PF ±10% 50V
C7012	0244139	CD 1000PF ±10% 50V	C807G	0244105	CD 2200PF ±10% 50V
C7013	0244139	CD 1000PF ±10% 50V	C807R	0244105	CD 2200PF ±10% 50V
C7014	0800082	EL 1000MF 16V	C808B	0244102	CD 1200PF ±10% 50V
C7015	0880044	PF 0.01MF ±10% 50V	C808G	0244102	CD 1200PF ±10% 50V
C7016	0800049	EL 100MF 16V	C808R	0244120	CD 820PF ±10% 50V
C7018	0800015	EL 10MF 16V	C809R	0244227	CD 100PF ±10% 50V
C7019	0244115	CD 560PF ±10% 50V	⚠C9001	0279718	PF 0.1MF ±10% 125V
C711	0299926	PP 0.1MF ±10% 200V	⚠C9002	0279718	PF 0.1MF ±10% 125V
C713	0244501	CD 1000PF ±10% 500V	C9003	0800075	EL 470MF 25V
C714	0244504	CD 1800PF ±10% 500V	C9004	0800049	EL 100MF 16V
C715	0890028	CD 330PF ±10% 50V	C9005	0800074	EL 470MF 16V
C716	0244211	CD 1000PF ±10% 2KV	C9006	0800062	EL 220MF 50V
C717	0299764	PP 0.011MF ±5% 1.6KV	⚠C902	0249489	CD 4700PF +100 −0%
C718	0299668	PP 3600PF ±5% 1600V	⚠C903	0249489	CD 4700PF +100 −0%
C719	0299931	PP 0.27MF ±10% 200V	C904	0249489	CD 4700PF +100 −0%
C721	0299920	PP 0.033MF ±10% 200V	C905	0249489	CD 4700PF +100 −0%
C722	0259471	EL 6.8MF 25V	C910	0259167	EL 820MF 200V
C724	0259153	EL 220MF 160V	C911	0243503	CD 150PF ±10% 500V
C725	0800044	EL 47MF 50V	C912	0244501	CD 1000PF ±10% 500V
C727	0244139	CD 1000PF ±10% 50V	C913	0299929	PP 0.18MF ±10% 200V
C729	0253483	EL 33MF 350V	C914	0244501	CD 1000PF ±10% 500V
C730	0244139	CD 100PF ±10% 50V	C915	0244139	CD 1000PF ±10% 50V
C731	0800053	EL 100MF 50V	C916	0800042	EL 47MF 25V
C732	0299636	PP 0.068MF ±5% 1600V	C917	0800042	EL 47MF 25V
C735	0800003	EL 1MF 50V	C918	0880009	PF 0.01MF ±10% 50V
C737	0244139	CD 1000PF ±10% 50V	C919	0244113	CD 330PF ±10% 50V
C738	0243510	CD 560PF ±10% 500V	C921	0800005	EL 2.2MF 50V
C739	0244139	CD 1000PF ±10% 50V	C922	0244103	CD 1500PF ±10% 50V
C740	0252417	EL 1MF 50V	C923	0800009	EL 4.7MF 25V
C743	0800003	EL 1MF 50V	C924	0274657	PF 3300PF ±5% 50V
C744	0880048	PF 0.022MF ±10% 50V	C926	0800003	EL 1MF 50V
C745	0880057	PF 0.1MF ±10% 50V	C927	0249487	CD 3300PF ±20%
C747	0299932	PP 0.33MF ±10% 200V	C928	0243503	CD 150PF ±10% 500V
C748	0247850	CD 68PF ±5% 500V	C929	0258175	EL 470MF 31.5V
C750	0800018	EL 10MF 50V	C930	0244139	CD 1000PF ±10% 50V
C751	0244507	CD 3300PF ±10% 500V	C933	0299969	PP 1000PF ±5% 50V
C755	0244109	CD 4700PF ±10% 50V	C934	0299969	PP 1000PF ±5% 50V
C756	0249388	CD 100PF ±10%	C935	0258697	EL 470MF 160V
C757	0251089	EL 4.7MF 25V	C936	0253460	EL 100MF 160V
C759	0800007	EL 3.3MF 50V	C937	0244105	CD 2200PF ±10% 50V
C760	0243503	CD 150PF ±10% 500V	C938	0880009	PF 0.01MF ±10% 50V
C761	0800026	EL 22MF 50V	C939	0800018	EL 10MF 50V
C762	0253942	EL 0.22MF 50V	C940	0800005	EL 2.2MF 50V
C801G	0257543	EL 3.3MF 315V	C941	0248672	CD 33PF ±5% 50V
C804B	0243425	CD 100PF ±10% 1.6KV	C942	0880013	PF 0.22MF ±10% 50V
C804G	0243425	CD 100PF ±10% 1.6KV	C943	0253943	EL 0.33MF 50V
C804R	0243425	CD 100PF ±10% 1.6KV	C946	0247854	CD 100PF ±5% 500V

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
C951	0259167	EL 820MF 200V	R0131	0700058	CF 22K OHM ±5% 1/16W
C952	0258174	EL 470MF 31.5V	R0132	0700049	CF 4.7K OHM ±5% 1/16W
C953	0243503	CD 150PF ±10% 500V	R0133	0700047	CF 3.3K OHM ±5% 1/16W
C954	0800074	EL 470MF 16V	R0134	0700066	CF 82K OHM ±5% 1/16W
C955	0243503	CD 150PF ±10% 500V	R0135	0700045	CF 2.2K OHM ±5% 1/16W
C956	0243503	CD 150PF ±10% 500V	R0136	0700037	CF 560 OHM ±5% 1/16W
C957	0258174	EL 470MF 31.5V	R0137	0700041	CF 1K OHM ±5% 1/16W
C958	0258174	EL 470MF 31.5V	R0139	0700054	CF 10K OHM ±5% 1/16W
C959	0244139	CD 1000PF ±10% 50V	R0140	0700046	CF 2.7K OHM ±5% 1/16W
C960	0244139	CD 1000PF ±10% 50V	R0141	0700049	CF 4.7K OHM ±5% 1/16W
C962	0800044	EL 47MF 50V	R0143	0700041	CF 1K OHM ±5% 1/16W
C963	0800044	EL 47MF 50V	R0144	0700054	CF 10K OHM ±5% 1/16W
C964	0800018	EL 10MF 50V	R0145	0700047	CF 3.3K OHM ±5% 1/16W
C971	0880018	PF 0.22MF ±10% 50V	R0146	0700064	CF 56K OHM ±5% 1/16W
C972	0800032	EL 33MF 16V	R0147	0700053	CF 8.2K OHM ±5% 1/16W
C976	0252987	EL 2.2MF 50V	R0148	0700032	CF 220 OHM ±5% 1/16W
C977	0243503	CD 150PF ±10% 500V	R0149	0700041	CF 1K OHM ±5% 1/16W
C978	0243512	CD 820PF ±10% 500V	R0150	0700041	CF 1K OHM ±5% 1/16W
C979	0243511	CD 680PF ±10% 500V	R0151	0700041	CF 1K OHM ±5% 1/16W
C980	0247850	CD 68PF ±5% 500V	R0152	0700045	CF 2.2K OHM ±5% 1/16W
C981	0880016	PF 0.1MF ±10% 50V	R0153	0700055	CF 12K OHM ±5% 1/16W
C982	0247850	CD 68PF ±5% 500V	R0155	0700062	CF 39K OHM ±5% 1/16W
C983	0880018	PF 0.22MF ±10% 50V	R0156	0700053	CF 8.2K OHM ±5% 1/16W
			R0157	0700058	CF 22K OHM ±5% 1/16W
			R0158	0700041	CF 1K OHM ±5% 1/16W
			R0159	0700041	CF 1K OHM ±5% 1/16W
			R0160	0700041	CF 1K OHM ±5% 1/16W
			R0161	0700041	CF 1K OHM ±5% 1/16W
			R0162	0700041	CF 1K OHM ±5% 1/16W
			R0163	0700054	CF 10K OHM ±5% 1/16W
			R0164	0700058	CF 22K OHM ±5% 1/16W
			R0165	0700061	CF 33K OHM ±5% 1/16W
			R0166	0700054	CF 10K OHM ±5% 1/16W
			R0167	0700054	CF 10K OHM ±5% 1/16W
			R0168	0700054	CF 10K OHM ±5% 1/16W
			R0169	0700058	CF 22K OHM ±5% 1/16W
			R0170	0700045	CF 2.2K OHM ±5% 1/16W
			R0171	0700067	CF 100K OHM ±5% 1/16W
			R0172	0700059	CF 27K OHM ±5% 1/16W
			R0173	0700041	CF 1K OHM ±5% 1/16W
			R0175	0700067	CF 100K OHM ±5% 1/16W
			R0176	0700066	CF 82K OHM ±5% 1/16W
			R0177	0100119	CF 180K OHM ±5% 1/8W
			R0178	0700041	CF 1K OHM ±5% 1/16W
			R0179	0700041	CF 1K OHM ±5% 1/16W
			R0180	0700041	CF 1K OHM ±5% 1/16W
			R0181	0700041	CF 1K OHM ±5% 1/16W
			R0182	0700041	CF 1K OHM ±5% 1/16W
			R0183	0700041	CF 1K OHM ±5% 1/16W
			R0184	0700041	CF 1K OHM ±5% 1/16W
			R0185	0700041	CF 1K OHM ±5% 1/16W

RESISTORS

R0102	0700049	CF 4.7K OHM ±5% 1/16W
R0103	0700045	CF 2.2K OHM ±5% 1/16W
R0104	0700051	CF 5.6K OHM ±5% 1/16W
R0105	0700064	CF 56K OHM ±5% 1/16W
R0106	0700054	CF 10K OHM ±5% 1/16W
R0108	0700054	CF 10K OHM ±5% 1/16W
R0109	0700041	CF 1K OHM ±5% 1/16W
R0110	0700054	CF 10K OHM ±5% 1/16W
R0111	0700054	CF 10K OHM ±5% 1/16W
R0112	0700054	CF 10K OHM ±5% 1/16W
R0113	0700053	CF 8.2K OHM ±5% 1/16W
R0114	0700062	CF 39K OHM ±5% 1/16W
R0115	0700059	CF 27K OHM ±5% 1/16W
R0116	0700059	CF 27K OHM ±5% 1/16W
R0117	0700059	CF 27K OHM ±5% 1/16W
R0118	0700059	CF 27K OHM ±5% 1/16W
R0122	0700041	CF 1K OHM ±5% 1/16W
R0123	0700041	CF 1K OHM ±5% 1/16W
R0124	0700058	CF 22K OHM ±5% 1/16W
R0125	0700058	CF 22K OHM ±5% 1/16W
R0129	0700049	CF 4.7K OHM ±5% 1/16W
R0130	0700067	CF 100K OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R0186	0700041	CF 1K OHM ±5% 1/16W	R0243	0700067	CF 100K OHM ±5% 1/16W
R0187	0700041	CF 1K OHM ±5% 1/16W	R0244	0700045	CF 2.2K OHM ±5% 1/16W
R0188	0700024	CF 56 OHM ±5% 1/16W	R0245	0700041	CF 1K OHM ±5% 1/16W
R0189	0700024	CF 56 OHM ±5% 1/16W	R0246	0700054	CF 10K OHM ±5% 1/16W
R0190	0100065	CF 1K OHM ±5% 1/8W	R0247	0700054	CF 10K OHM ±5% 1/16W
R0191	0700063	CF 47K OHM ±5% 1/16W	R0248	0700041	CF 1K OHM ±5% 1/16W
R0192	0700041	CF 1K OHM ±5% 1/16W	R0249	0700041	CF 1K OHM ±5% 1/16W
R0197	0700052	CF 6.8K OHM ±5% 1/16W	R0250	0700041	CF 1K OHM ±5% 1/16W
R0198	0700048	CF 3.9K OHM ±5% 1/16W	R0251	0700041	CF 1K OHM ±5% 1/16W
R0200	0700046	CF 2.7K OHM ±5% 1/16W	R0252	0700041	CF 1K OHM ±5% 1/16W
R0201	0700046	CF 2.7K OHM ±5% 1/16W	R0253	0700041	CF 1K OHM ±5% 1/16W
R0202	0700046	CF 2.7K OHM ±5% 1/16W	R0254	0700041	CF 1K OHM ±5% 1/16W
R0203	0700053	CF 8.2K OHM ±5% 1/16W	R0255	0700041	CF 1K OHM ±5% 1/16W
R0204	0700057	CF 18K OHM ±5% 1/16W	R0256	0700041	CF 1K OHM ±5% 1/16W
R0205	0700058	CF 22K OHM ±5% 1/16W	R0257	0700041	CF 1K OHM ±5% 1/16W
R0206	0700058	CF 22K OHM ±5% 1/16W	R0258	0700041	CF 1K OHM ±5% 1/16W
R0207	0700042	CF 1.2K OHM ±5% 1/16W	R0260	0700038	CF 680 OHM ±5% 1/16W
R0208	0700058	CF 22K OHM ±5% 1/16W	R0261	0700067	CF 100K OHM ±5% 1/16W
R0209	0700058	CF 22K OHM ±5% 1/16W	R0262	0700027	CF 100 OHM ±5% 1/16W
R0210	0700058	CF 22K OHM ±5% 1/16W	R0401	0187072	CF 2K OHM ±5% 1/16W
R0211	0700058	CF 22K OHM ±5% 1/16W	R0402	0700054	CF 10K OHM ±5% 1/16W
R0212	0700058	CF 22K OHM ±5% 1/16W	R0403	0150024	VR 10K OHM-B R-08
R0213	0700058	CF 22K OHM ±5% 1/16W	R0404	0187110	CF 75K OHM ±5% 1/16W
R0214	0700041	CF 1K OHM ±5% 1/16W	R0405	0187102	CF 36K OHM ±5% 1/16W
R0215	0700041	CF 1K OHM ±5% 1/16W	R0406	0150027	VR 50K OHM-B R-08
R0216	0700041	CF 1K OHM ±5% 1/16W	R0407	0187104	CF 43K OHM ±5% 1/16W
R0217	0700041	CF 1K OHM ±5% 1/16W	R0408	0150027	VR 50K OHM-B R-08
R0218	0700041	CF 1K OHM ±5% 1/16W	R0409	0100116	CF 130K OHM ±5% 1/8W
R0219	0700059	CF 27K OHM ±5% 1/16W	R0410	0150028	VR 100K OHM-B R-08
R0220	0700041	CF 1K OHM ±5% 1/16W	R0411	0700041	CF 1K OHM ±5% 1/16W
R0221	0700041	CF 1K OHM ±5% 1/16W	R0412	0700041	CF 1K OHM ±5% 1/16W
R0222	0113758	CF 2.2K OHM ±5% 1/2W	R0413	0187100	CF 30K OHM ±5% 1/16W
R0223	0700054	CF 10K OHM ±5% 1/16W	R0414	0700041	CF 1K OHM ±5% 1/16W
R0224	0700063	CF 47K OHM ±5% 1/16W	R0415	0150027	VR 50K OHM-B R-08
R0225	0700063	CF 47K OHM ±5% 1/16W	R0416	0700066	CF 82K OHM ±5% 1/16W
R0226	0700066	CF 82K OHM ±5% 1/16W	R0417	0700041	CF 1K OHM ±5% 1/16W
R0227	0700054	CF 10K OHM ±5% 1/16W	R0418	0700054	CF 10K OHM ±5% 1/16W
R0228	0700031	CF 180 OHM ±5% 1/16W	R0419	0700054	CF 10K OHM ±5% 1/16W
R0229	0700027	CF 100 OHM ±5% 1/16W	R0420	0700054	CF 10K OHM ±5% 1/16W
R0230	0700041	CF 1K OHM ±5% 1/16W	R0421	0700058	CF 22K OHM ±5% 1/16W
R0231	0700027	CF 100 OHM ±5% 1/16W	R0422	0700054	CF 10K OHM ±5% 1/16W
R0232	0700036	CF 470 OHM ±5% 1/16W	R0423	0700054	CF 10K OHM ±5% 1/16W
R0233	0700054	CF 10K OHM ±5% 1/16W	R0424	0700054	CF 10K OHM ±5% 1/16W
R0234	0700054	CF 10K OHM ±5% 1/16W	R0425	0700054	CF 10K OHM ±5% 1/16W
R0235	0700054	CF 10K OHM ±5% 1/16W	R0426	0700049	CF 4.7K OHM ±5% 1/16W
R0236	0700061	CF 33K OHM ±5% 1/16W	R0427	0150287	VR 10K OHM-B
R0237	0700054	CF 10K OHM ±5% 1/16W	R0428	0100129	CF 470K OHM ±5% 1/8W
R0238	0700045	CF 2.2K OHM ±5% 1/16W	R0429	0187104	CF 43K OHM ±5% 1/16W
R0239	0700043	CF 1.5K OHM ±5% 1/16W	R0431	0700054	CF 10K OHM ±5% 1/16W
R0241	0700067	CF 100K OHM ±5% 1/16W	R0432	0700049	CF 4.7K OHM ±5% 1/16W
R0242	0100121	CF 220K OHM ±5% 1/8W	R0440	0700041	CF 1K OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R102	0113725	CF 100 OHM ±5% 1/2W	R1268	0700057	CF 18K OHM ±5% 1/16W
R103	01195051	FR 2.2 OHM ±5% 1/4W	R1269	0150253	VR 5K OHM-B
R104	0100057	CF 470 OHM ±5% 1/8W	R1270	0700057	CF 18K OHM ±5% 1/16W
R1101	0113754	CF 1.5K OHM ±5% 1/2W	R1271	0700058	CF 22K OHM ±5% 1/16W
R1102	0113754	CF 1.5K OHM ±5% 1/2W	R1272	0700062	CF 39K OHM ±5% 1/16W
R1103	0100075	CF 2.7K OHM ±5% 1/8W	R1274	0700063	CF 47K OHM ±5% 1/16W
R1104	0100075	CF 2.7K OHM ±5% 1/8W	R1277	0700061	CF 33K OHM ±5% 1/16W
R1105	0114150	CF 620 OHM ±5% 1/4W	R1279	0700052	CF 6.8K OHM ±5% 1/16W
R1106	0113737	CF 330 OHM ±5% 1/2W	R1280	0700049	CF 4.7K OHM ±5% 1/16W
R1208	0114165	CF 1.5K OHM ±5% 1/4W	R1281	0700049	CF 4.7K OHM ±5% 1/16W
R1209	0114165	CF 1.5K OHM ±5% 1/4W	R1282	0700054	CF 10K OHM ±5% 1/16W
R1210	0114182	CF 7.5K OHM ±5% 1/4W	R1283	0700054	CF 10K OHM ±5% 1/16W
R1211	0114150	CF 620 OHM ±5% 1/4W	R1284	0700054	CF 10K OHM ±5% 1/16W
R1212	0113773	CF 9.1K OHM ±5% 1/2W	R1285	0700041	CF 1K OHM ±5% 1/16W
R1213	0113684	CF 2.2 OHM ±5% 1/2W	R1286	0700054	CF 10K OHM ±5% 1/16W
R1214	0113684	CF 2.2 OHM ±5% 1/2W	R1287	0100130	CF 510K OHM ±5% 1/8W
R1215	0113694	CF 5.6 OHM ±5% 1/2W	R1291	0110385	MF 47K OHM ±5% 3W
R1216	0100081	CF 4.7K OHM ±5% 1/8W	R1293	0119722	MF 1 OHM ±5% 1W
R1217	0113774	CF 10K OHM ±5% 1/2W	R1295	0700056	CF 15K OHM ±5% 1/16W
R1218	0700057	CF 18K OHM ±5% 1/16W	R1301	0100081	CF 4.7K OHM ±5% 1/8W
R1219	0150253	VR 5K OHM-B	R1302	0114163	CF 1.2K OHM ±5% 1/4W
R1220	0700057	CF 18K OHM ±5% 1/16W	R1303	0114163	CF 1.2K OHM ±5% 1/4W
R1221	0700058	CF 22K OHM ±5% 1/16W	R1304	0114201	CF 10K OHM ±5% 1/4W
R1222	0700062	CF 39K OHM ±5% 1/16W	R1305	0114133	CF 120 OHM ±5% 1/4W
R1224	0700064	CF 56K OHM ±5% 1/16W	R1306	0113768	CF 5.6K OHM ±5% 1/2W
R1233	0114165	CF 1.5K OHM ±5% 1/4W	R1307	0113684	CF 2.2 OHM ±5% 1/2W
R1234	0114165	CF 1.5K OHM ±5% 1/4W	R1308	0113684	CF 2.2 OHM ±5% 1/2W
R1235	0114182	CF 7.5K OHM ±5% 1/4W	R1309	0113742	CF 470 OHM ±5% 1/2W
R1236	0114150	CF 620 OHM ±5% 1/4W	R1310	0110103	MF 18 OHM ±5% 1W
R1237	0113773	CF 9.1K OHM ±5% 1/2W	R1311	0100089	CF 10K OHM ±5% 1/8W
R1238	0113684	CF 2.2 OHM ±5% 1/2W	R1312	0100081	CF 4.7K OHM ±5% 1/8W
R1239	0113684	CF 2.2 OHM ±5% 1/2W	R1313	0114163	CF 1.2K OHM ±5% 1/4W
R1240	0113694	CF 5.6 OHM ±5% 1/2W	R1314	0114163	CF 1.2K OHM ±5% 1/4W
R1241	0100081	CF 4.7K OHM ±5% 1/8W	R1315	0114201	CF 10K OHM ±5% 1/4W
R1242	0113774	CF 10K OHM ±5% 1/2W	R1316	0114133	CF 120 OHM ±5% 1/4W
R1243	0700057	CF 18K OHM ±5% 1/16W	R1317	0113768	CF 5.6K OHM ±5% 1/2W
R1244	0150253	VR 5K OHM-B	R1318	0113684	CF 2.2 OHM ±5% 1/2W
R1245	0700057	CF 18K OHM ±5% 1/16W	R1319	0113684	CF 2.2 OHM ±5% 1/2W
R1246	0700058	CF 22K OHM ±5% 1/16W	R1320	0110228	MF 200 OHM ±5% 2W
R1247	0700062	CF 39K OHM ±5% 1/16W	R1321	0110101	MF 15 OHM ±5% 2W
R1249	0700063	CF 47K OHM ±5% 1/16W	R1322	0100089	CF 10K OHM ±5% 1/8W
R1258	0114165	CF 1.5K OHM ±5% 1/4W	R1323	0100081	CF 4.7K OHM ±5% 1/8W
R1259	0114165	CF 1.5K OHM ±5% 1/4W	R1324	0114163	CF 1.2K OHM ±5% 1/4W
R1260	0114182	CF 7.5K OHM ±5% 1/4W	R1325	0114163	CF 1.2K OHM ±5% 1/4W
R1261	0114150	CF 620 OHM ±5% 1/4W	R1326	0114201	CF 10K OHM ±5% 1/4W
R1262	0113773	CF 9.1K OHM ±5% 1/2W	R1327	0114063	CF 82 OHM ±5% 1/4W
R1263	0113684	CF 2.2 OHM ±5% 1/2W	R1328	0110249	MF 1.5K OHM ±5% 2W
R1264	0113684	CF 2.2 OHM ±5% 1/2W	R1329	0113684	CF 2.2 OHM ±5% 1/2W
R1265	0113694	CF 5.6 OHM ±5% 1/2W	R1330	0113684	CF 2.2 OHM ±5% 1/2W
R1266	0100081	CF 4.7K OHM ±5% 1/8W	R1331	0110228	MF 200 OHM ±5% 2W
R1267	0113774	CF 10K OHM ±5% 1/2W	R1332	0110103	MF 18 OHM ±5% 1W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R1333	0100089	CF 10K OHM ±5% 1/8W	R1389	0700058	CF 22K OHM ±5% 1/16W
R1334	0100081	CF 4.7K OHM ±5% 1/8W	R1392	0700063	CF 47K OHM ±5% 1/16W
R1335	0114163	CF 1.2K OHM ±5% 1/4W	R1395	0700041	CF 1K OHM ±5% 1/16W
R1336	0114163	CF 1.2K OHM ±5% 1/4W	R1401	0700041	CF 1K OHM ±5% 1/16W
R1337	0114201	CF 10K OHM ±5% 1/4W	R1402	0700046	CF 2.7K OHM ±5% 1/16W
R1338	0114133	CF 120 OHM ±5% 1/4W	R1403	0700046	CF 2.7K OHM ±5% 1/16W
R1339	0113768	CF 5.6K OHM ±5% 1/2W	R1404	0700041	CF 1K OHM ±5% 1/16W
R1340	0113684	CF 2.2 OHM ±5% 1/2W	R1410	0700054	CF 10K OHM ±5% 1/16W
R1341	0113684	CF 2.2 OHM ±5% 1/2W	R1412	0700066	CF 82K OHM ±5% 1/16W
R1342	0110228	MF 200 OHM ±5% 2W	R1413	0700055	CF 12K OHM ±5% 1/16W
R1343	0110101	MF 15 OHM ±5% 1W	R1415	0187104	CF 43K OHM ±5% 1/16W
R1344	0100089	CF 10K OHM ±5% 1/8W	R1416	0700058	CF 22K OHM ±5% 1/16W
R1345	0100081	CF 4.7K OHM ±5% 1/8W	R1418	0700066	CF 82K OHM ±5% 1/16W
R1346	0114163	CF 1.2K OHM ±5% 1/4W	R1419	0700057	CF 18K OHM ±5% 1/16W
R1347	0114163	CF 1.2K OHM ±5% 1/4W	R1421	0187110	CF 75K OHM ±5% 1/16W
R1348	0114201	CF 10K OHM ±5% 1/4W	R1422	0150791	VR 6-GANGED
R1349	0114133	CF 120 OHM ±5% 1/4W	R1423	0100038	CF 75 OHM ±5% 1/8W
R1350	0113768	CF 5.6K OHM ±5% 1/2W	R1424	0100038	CF 75 OHM ±5% 1/8W
R1351	0113684	CF 2.2 OHM ±5% 1/2W	R1425	0100038	CF 75 OHM ±5% 1/8W
R1352	0113684	CF 2.2 OHM ±5% 1/2W	R1426	0700067	CF 100K OHM ±5% 1/16W
R1353	0113742	CF 470 OHM ±5% 1/2W	R1427	0700067	CF 100K OHM ±5% 1/16W
R1354	0110103	MF 18 OHM ±5% 1W	R151	0100065	CF 1K OHM ±5% 1/8W
R1355	0100089	CF 10K OHM ±5% 1/8W	R2001	0700058	CF 22K OHM ±5% 1/16W
R1356	0100081	CF 4.7K OHM ±5% 1/8W	R2002	0700051	CF 5.6K OHM ±5% 1/16W
R1357	0114163	CF 1.2K OHM ±5% 1/4W	R2003	0700045	CF 2.2K OHM ±5% 1/16W
R1358	0114163	CF 1.2K OHM ±5% 1/4W	R2004	0700034	CF 330 OHM ±5% 1/16W
R1359	0114201	CF 10K OHM ±5% 1/4W	R2005	0700051	CF 5.6K OHM ±5% 1/16W
R1360	0114133	CF 120 OHM ±5% 1/4W	R2006	0700036	CF 470 OHM ±5% 1/16W
R1361	0113768	CF 5.6K OHM ±5% 1/2W	R2007	0700058	CF 22K OHM ±5% 1/16W
R1362	0113684	CF 2.2 OHM ±5% 1/2W	R2008	0700064	CF 56K OHM ±5% 1/16W
R1363	0113684	CF 2.2 OHM ±5% 1/2W	R2009	0700041	CF 1K OHM ±5% 1/16W
R1364	0110228	MF 200 OHM ±5% 2W	R2010	0700041	CF 1K OHM ±5% 1/16W
R1365	0110101	MF 15 OHM ±5% 1W	R2011	0150069	VR 20K OHM-B RV-8
R1366	0100089	CF 10K OHM ±5% 1/8W	R2012	0700058	CF 22K OHM ±5% 1/16W
R1367	0110103	MF 18 OHM ±5% 1W	R2013	0700051	CF 5.6K OHM ±5% 1/16W
R1368	0110101	MF 15 OHM ±5% 1W	R2014	0700041	CF 1K OHM ±5% 1/16W
R1369	0110103	MF 18 OHM ±5% 1W	R2015	0700058	CF 22K OHM ±5% 1/16W
R1370	0110101	MF 15 OHM ±5% 1W	R2016	0700064	CF 56 OHM ±5% 1/16W
R1371	0110103	MF 18 OHM ±5% 1W	R2017	0700041	CF 1K OHM ±5% 1/16W
R1372	0110101	MF 15 OHM ±5% 1W	R2018	0700045	CF 2.2K OHM ±5% 1/16W
R1373	0700063	CF 47K OHM ±5% 1/16W	R2019	0700041	CF 1K OHM ±5% 1/16W
R1374	0700063	CF 47K OHM ±5% 1/16W	R2020	0700045	CF 2.2K OHM ±5% 1/16W
R1375	0700063	CF 47K OHM ±5% 1/16W	R2021	0700041	CF 1K OHM ±5% 1/16W
R1376	0700063	CF 47K OHM ±5% 1/16W	R2022	0700041	CF 1K OHM ±5% 1/16W
R1377	0700041	CF 1K OHM ±5% 1/16W	R2023	0700042	CF 1.2K OHM ±5% 1/16W
R1378	0700041	CF 1K OHM ±5% 1/16W	R2024	0700054	CF 10K OHM ±5% 1/16W
R1379	0700057	CF 18K OHM ±5% 1/16W	R2025	0700054	CF 10K OHM ±5% 1/16W
R1382	0114183	CF 8.2K OHM ±5% 1/4W	R2026	0700051	CF 5.6K OHM ±5% 1/16W
R1383	0114163	CF 1.2K OHM ±5% 1/4W	R2027	0700058	CF 22K OHM ±5% 1/16W
R1384	0114183	CF 8.2K OHM ±5% 1/4W	R2028	0700054	CF 10K OHM ±5% 1/16W
R1388	0700058	CF 22K OHM ±5% 1/16W	R2029	0700058	CF 22K OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R2030	0700041	CF 1K OHM ±5% 1/16W	R2134	0150067	VR 5K OHM-B RS-8
R2031	0700041	CF 1K OHM ±5% 1/16W	R2135	0150067	VR 5K OHM-B RS-8
R2032	0700067	CF 100K OHM ±5% 1/16W	R2136	0150067	VR 5K OHM-B RS-8
R2035	0700052	CF 6.8K OHM ±5% 1/16W	R2137	0150067	VR 5K OHM-B RS-8
R2036	0700051	CF 5.6K OHM ±5% 1/16W	R2138	0150067	VR 5K OHM-B RS-8
R2037	0700058	CF 22K OHM ±5% 1/16W	R2139	0150067	VR 5K OHM-B RS-8
R2038	0700051	CF 5.6K OHM ±5% 1/16W	R2140	0150067	VR 5K OHM-B RS-8
R2039	0700057	CF 18K OHM ±5% 1/16W	R2141	0150067	VR 5K OHM-B RS-8
R2040	0700061	CF 33K OHM ±5% 1/16W	R2142	0150067	VR 5K OHM-B RS-8
R2041	0700051	CF 5.6K OHM ±5% 1/16W	R2151	0700048	CF 3.9K OHM ±5% 1/16W
R2042	0700043	CF 1.5K OHM ±5% 1/16W	R2152	0700044	CF 1.8K OHM ±5% 1/16W
R2043	0114131	CF 100 OHM ±5% 1/4W	R2154	0187092	CF 13K OHM ±5% 1/16W
R2044	0700054	CF 10K OHM ±5% 1/16W	R2155	0700049	CF 4.7K OHM ±5% 1/16W
R2047	0700043	CF 1.5K OHM ±5% 1/16W	R2156	0700047	CF 3.3K OHM ±5% 1/16W
R2057	0700041	CF 1K OHM ±5% 1/16W	R2157	0700052	CF 6.8K OHM ±5% 1/16W
R2058	0700034	CF 330 OHM ±5% 1/16W	R2158	0700047	CF 3.3K OHM ±5% 1/16W
R2059	0187100	CF 30K OHM ±5% 1/16W	R2162	0700054	CF 10K OHM ±5% 1/16W
R2060	0700051	CF 5.6K OHM ±5% 1/16W	R2163	0100121	CF 220K OHM ±5% 1/8W
R2101	0150067	VR 5K OHM-B RS-8	R2164	0114161	CF 1K OHM ±5% 1/4W
R2102	0150067	VR 5K OHM-B RS-8	R2165	0100087	CF 8.2K OHM ±5% 1/8W
R2103	0150067	VR 5K OHM-B RS-8	R2166	0187072	CF 2K OHM ±5% 1/16W
R2104	0150067	VR 5K OHM-B RS-8	R2167	0700049	CF 4.7K OHM ±5% 1/16W
R2105	0150067	VR 5K OHM-B RS-8	R2168	0187068	CF 1.3K OHM ±5% 1/16W
R2106	0150067	VR 5K OHM-B RS-8	R2169	0187080	CF 4.3K OHM ±5% 1/16W
R2107	0150067	VR 5K OHM-B RS-8	R2170	0700055	CF 12K OHM ±5% 1/16W
R2108	0150067	VR 5K OHM-B RS-8	R2171	0700047	CF 3.3K OHM ±5% 1/16W
R2109	0150067	VR 5K OHM-B RS-8	R2172	0700047	CF 3.3K OHM ±5% 1/16W
R2110	0150067	VR 5K OHM-B RS-8	R2173	0700067	CF 100K OHM ±5% 1/16W
R2111	0150067	VR 5K OHM-B RS-8	R2174	0700053	CF 8.2K OHM ±5% 1/16W
R2112	0150067	VR 5K OHM-B RS-8	R2175	0700042	CF 1.2K OHM ±5% 1/16W
R2113	0150067	VR 5K OHM-B RS-8	R2182	0700051	CF 5.6K OHM ±5% 1/16W
R2114	0150067	VR 5K OHM-B RS-8	R2183	0150064	VR 1K OHM-B RV-8
R2115	0150067	VR 5K OHM-B RS-8	R2185	0150025	VR 20K OHM-B R-08
R2116	0150067	VR 5K OHM-B RS-8	R2186	0150025	VR 20K OHM-B R-08
R2117	0150067	VR 5K OHM-B RS-8	R2189	0700063	CF 47K OHM ±5% 1/16W
R2118	0150067	VR 5K OHM-B RS-8	R2190	0700057	CF 18K OHM ±5% 1/16W
R2119	0150067	VR 5K OHM-B RS-8	R2193	0150562	VR 10K OHM-B
R2120	0150067	VR 5K OHM-B RS-8	R2194	0150562	VR 10K OHM-B
R2121	0150067	VR 5K OHM-B RS-8	R2195	0150562	VR 10K OHM-B
R2122	0150067	VR 5K OHM-B RS-8	R2196	0150067	VR 5K OHM-B RS-8
R2123	0150067	VR 5K OHM-B RS-8	R2197	0700066	CF 82K OHM ±5% 1/16W
R2124	0150067	VR 5K OHM-B RS-8	R2199	0187104	CF 43K OHM ±5% 1/16W
R2125	0150067	VR 5K OHM-B RS-8	R2200	0700054	CF 10K OHM ±5% 1/16W
R2126	0150067	VR 5K OHM-B RS-8	R2201	0187088	CF 9.1K OHM ±5% 1/16W
R2127	0150067	VR 5K OHM-B RS-8	R2204	0700057	CF 18K OHM ±5% 1/16W
R2128	0150067	VR 5K OHM-B RS-8	R2205	0700067	CF 100K OHM ±5% 1/16W
R2129	0150067	VR 5K OHM-B RS-8	R2206	0187098	CF 24K OHM ±5% 1/16W
R2130	0150067	VR 5K OHM-B RS-8	R2208	0700049	CF 4.7K OHM ±5% 1/16W
R2131	0150067	VR 5K OHM-B RS-8	R2209	0700049	CF 4.7K OHM ±5% 1/16W
R2132	0150067	VR 5K OHM-B RS-8	R2210	0700047	CF 3.3K OHM ±5% 1/16W
R2133	0150067	VR 5K OHM-B RS-8	R2211	0700054	CF 10K OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R2212	0700046	CF 2.7K OHM ±5% 1/16W	R2268	0700054	CF 10K OHM ±5% 1/16W
R2213	0700046	CF 2.7K OHM ±5% 1/16W	R2269	0700056	CF 15K OHM ±5% 1/16W
R2217	0700049	CF 4.7K OHM ±5% 1/16W	R2270	0700047	CF 3.3K OHM ±5% 1/16W
R2218	0700045	CF 2.2K OHM ±5% 1/16W	R2271	0700049	CF 4.7K OHM ±5% 1/16W
R2219	0700067	CF 100K OHM ±5% 1/16W	R2272	0700063	CF 47K OHM ±5% 1/16W
R2220	0114161	CF 1K OHM ±5% 1/4W	R2273	0700067	CF 100K OHM ±5% 1/16W
R2221	0700049	CF 4.7K OHM ±5% 1/16W	R2274	0700062	CF 39K OHM ±5% 1/16W
R2222	0700052	CF 6.8K OHM ±5% 1/16W	R2275	0700048	CF 3.9K OHM ±5% 1/16W
R2223	0700049	CF 4.7K OHM ±5% 1/16W	R2276	0187086	CF 7.5K OHM ±5% 1/16W
R2224	0700048	CF 3.9K OHM ±5% 1/16W	R2277	0700052	CF 6.8K OHM ±5% 1/16W
R2225	0187086	CF 7.5K OHM ±5% 1/16W	R2278	0700047	CF 3.3K OHM ±5% 1/16W
R2226	0700048	CF 3.9K OHM ±5% 1/16W	R2279	0700041	CF 1K OHM ±5% 1/16W
R2227	0700051	CF 5.6K OHM ±5% 1/16W	R2280	0700052	CF 6.8K OHM ±5% 1/16W
R2228	0700048	CF 3.9K OHM ±5% 1/16W	R2281	0700054	CF 10K OHM ±5% 1/16W
R2229	0700045	CF 2.2K OHM ±5% 1/16W	R2282	0700049	CF 4.7K OHM ±5% 1/16W
R2230	0700053	CF 8.2K OHM ±5% 1/16W	R2283	0700049	CF 4.7K OHM ±5% 1/16W
R2231	0700046	CF 2.7K OHM ±5% 1/16W	R2284	0700054	CF 10K OHM ±5% 1/16W
R2232	0700054	CF 10K OHM ±5% 1/16W	R2285	0700045	CF 2.2K OHM ±5% 1/16W
R2233	0700042	CF 1.2K OHM ±5% 1/16W	R2286	0700049	CF 4.7K OHM ±5% 1/16W
R2234	0700042	CF 1.2K OHM ±5% 1/16W	R2287	0700065	CF 68K OHM ±5% 1/16W
R2235	0700054	CF 10K OHM ±5% 1/16W	R2288	0700045	CF 2.2K OHM ±5% 1/16W
R2236	0700049	CF 4.7K OHM ±5% 1/16W	R2289	0700052	CF 6.8K OHM ±5% 1/16W
R2237	0700048	CF 3.9K OHM ±5% 1/16W	R2290	0700054	CF 10K OHM ±5% 1/16W
R2238	0700065	CF 68K OHM ±5% 1/16W	R2291	0700027	CF 100 OHM ±5% 1/16W
R2239	0700048	CF 3.9K OHM ±5% 1/16W	R2292	0700047	CF 3.3K OHM ±5% 1/16W
R2240	0700054	CF 10K OHM ±5% 1/16W	R2293	0700049	CF 4.7K OHM ±5% 1/16W
R2241	0700054	CF 10K OHM ±5% 1/16W	R2294	0700046	CF 2.7K OHM ±5% 1/16W
R2242	0700063	CF 47K OHM ±5% 1/16W	R2295	0700063	CF 47K OHM ±5% 1/16W
R2243	0700041	CF 1K OHM ±5% 1/16W	R2298	0700042	CF 1.2K OHM ±5% 1/16W
R2244	0700047	CF 3.3K OHM ±5% 1/16W	R2299	0700051	CF 5.6K OHM ±5% 1/16W
R2245	0700047	CF 3.3K OHM ±5% 1/16W	R2300	0700051	CF 5.6K OHM ±5% 1/16W
R2246	0700051	CF 5.6K OHM ±5% 1/16W	R2301	0700042	CF 1.2K OHM ±5% 1/16W
R2247	0700063	CF 47K OHM ±5% 1/16W	R2302	0700046	CF 2.7K OHM ±5% 1/16W
R2250	0700067	CF 100K OHM ±5% 1/16W	R2303	0700052	CF 6.8K OHM ±5% 1/16W
R2251	0700058	CF 22K OHM ±5% 1/16W	R2304	0700045	CF 2.2K OHM ±5% 1/16W
R2252	0700061	CF 33K OHM ±5% 1/16W	R2305	0700048	CF 3.9K OHM ±5% 1/16W
R2253	0700042	CF 1.2K OHM ±5% 1/16W	R2306	0700049	CF 4.7K OHM ±5% 1/16W
R2254	0700051	CF 5.6K OHM ±5% 1/16W	R2307	0700067	CF 100K OHM ±5% 1/16W
R2255	0700051	CF 5.6K OHM ±5% 1/16W	R2308	0700049	CF 4.7K OHM ±5% 1/16W
R2256	0700042	CF 1.2K OHM ±5% 1/16W	R2309	0700041	CF 1K OHM ±5% 1/16W
R2257	0700046	CF 2.7K OHM ±5% 1/16W	R2310	0700052	CF 6.8K OHM ±5% 1/16W
R2258	0700052	CF 6.8K OHM ±5% 1/16W	R2311	0700058	CF 22K OHM ±5% 1/16W
R2259	0700045	CF 2.2K OHM ±5% 1/16W	R2312	0700061	CF 33K OHM ±5% 1/16W
R2260	0700048	CF 3.9K OHM ±5% 1/16W	R2313	0700046	CF 2.7K OHM ±5% 1/16W
R2261	0700052	CF 6.8K OHM ±5% 1/16W	R2314	0700054	CF 10K OHM ±5% 1/16W
R2262	0700047	CF 3.3K OHM ±5% 1/16W	R2315	0700054	CF 10K OHM ±5% 1/16W
R2263	0700054	CF 10K OHM ±5% 1/16W	R2316	0700047	CF 3.3K OHM ±5% 1/16W
R2264	0700047	CF 3.3K OHM ±5% 1/16W	R2317	0700049	CF 4.7K OHM ±5% 1/16W
R2265	0700058	CF 22K OHM ±5% 1/16W	R2318	0700049	CF 4.7K OHM ±5% 1/16W
R2266	0700046	CF 2.7K OHM ±5% 1/16W	R2319	0700056	CF 15K OHM ±5% 1/16W
R2267	0700054	CF 10K OHM ±5% 1/16W	R2320	0700058	CF 22K OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R2321	0700062	CF 39K OHM ±5% 1/16W	R2372	0150064	VR 1K OHM-B RV-8
R2322	0700067	CF 100K OHM ±5% 1/16W	R2373	0700047	CF 3.3K OHM ±5% 1/16W
R2323	0700063	CF 47K OHM ±5% 1/16W	R2374	0700065	CF 68K OHM ±5% 1/16W
R2324	0700041	CF 1K OHM ±5% 1/16W	R2375	0700047	CF 3.3K OHM ±5% 1/16W
R2325	0700052	CF 6.8K OHM ±5% 1/16W	R2376	0700063	CF 47K OHM ±5% 1/16W
R2326	0700045	CF 2.2K OHM ±5% 1/16W	R2377	0700063	CF 47K OHM ±5% 1/16W
R2327	0700051	CF 5.6K OHM ±5% 1/16W	R2378	0700065	CF 68K OHM ±5% 1/16W
R2328	0700047	CF 3.3K OHM ±5% 1/16W	R2379	0700041	CF 1K OHM ±5% 1/16W
R2329	0700046	CF 2.7K OHM ±5% 1/16W	R2380	0700055	CF 12K OHM ±5% 1/16W
R2330	0700042	CF 1.2K OHM ±5% 1/16W	R2381	0700041	CF 1K OHM ±5% 1/16W
R2331	0700047	CF 3.3K OHM ±5% 1/16W	R2383	0700041	CF 1K OHM ±5% 1/16W
R2332	0187088	CF 9.1K OHM ±5% 1/16W	R2384	0700053	CF 8.2K OHM ±5% 1/16W
R2333	0700045	CF 2.2K OHM ±5% 1/16W	R2388	0700041	CF 1K OHM ±5% 1/16W
R2334	0700049	CF 4.7K OHM ±5% 1/16W	R2389	0700041	CF 1K OHM ±5% 1/16W
R2335	0700049	CF 4.7K OHM ±5% 1/16W	R2390	0700057	CF 18K OHM ±5% 1/16W
R2336	0700065	CF 68K OHM ±5% 1/16W	R2391	0700062	CF 39K OHM ±5% 1/16W
R2337	0700056	CF 15K OHM ±5% 1/16W	R2392	0700041	CF 1K OHM ±5% 1/16W
R2338	0700056	CF 15K OHM ±5% 1/16W	R2393	0700049	CF 4.7K OHM ±5% 1/16W
R2339	0700054	CF 10K OHM ±5% 1/16W	R2394	0187082	CF 5.1K OHM ±5% 1/16W
R2340	0700049	CF 4.7K OHM ±5% 1/16W	R2396	0700041	CF 1K OHM ±5% 1/16W
R2341	0700054	CF 10K OHM ±5% 1/16W	R2397	0700057	CF 18K OHM ±5% 1/16W
R2342	0700027	CF 100 OHM ±5% 1/16W	R2398	0700054	CF 10K OHM ±5% 1/16W
R2343	0700027	CF 100 OHM ±5% 1/16W	R2399	0700043	CF 1.5K OHM ±5% 1/16W
R2344	0700027	CF 100 OHM ±5% 1/16W	R2400	0700049	CF 4.7K OHM ±5% 1/16W
R2345	0700027	CF 100 OHM ±5% 1/16W	R2401	0700041	CF 1K OHM ±5% 1/16W
R2346	0700027	CF 100 OHM ±5% 1/16W	R2402	0700041	CF 1K OHM ±5% 1/16W
R2347	0700027	CF 100 OHM ±5% 1/16W	R2403	0700066	CF 82K OHM ±5% 1/16W
R2348	0700065	CF 68K OHM ±5% 1/16W	R2404	0700056	CF 15K OHM ±5% 1/16W
R2349	0700052	CF 6.8K OHM ±5% 1/16W	R2405	0700054	CF 10K OHM ±5% 1/16W
R2350	0700052	CF 6.8K OHM ±5% 1/16W	R2406	0700047	CF 3.3K OHM ±5% 1/16W
R2351	0700059	CF 27K OHM ±5% 1/16W	R2407	0700047	CF 3.3K OHM ±5% 1/16W
R2352	0700051	CF 5.6K OHM ±5% 1/16W	R2408	0700041	CF 1K OHM ±5% 1/16W
R2353	0700049	CF 4.7K OHM ±5% 1/16W	R2409	0700041	CF 1K OHM ±5% 1/16W
R2354	0700059	CF 27K OHM ±5% 1/16W	R2410	0700066	CF 82K OHM ±5% 1/16W
R2355	0700054	CF 10K OHM ±5% 1/16W	R2411	0700056	CF 15K OHM ±5% 1/16W
R2356	0700041	CF 1K OHM ±5% 1/16W	R2412	0700052	CF 6.8K OHM ±5% 1/16W
R2357	0700059	CF 27K OHM ±5% 1/16W	R2413	0700052	CF 6.8K OHM ±5% 1/16W
R2358	0700041	CF 1K OHM ±5% 1/16W	R2414	0700051	CF 5.6K OHM ±5% 1/16W
R2359	0700055	CF 12K OHM ±5% 1/16W	R2415	0700052	CF 6.8K OHM ±5% 1/16W
R2360	0700059	CF 27K OHM ±5% 1/16W	R2416	0700052	CF 6.8K OHM ±5% 1/16W
R2361	0700067	CF 100K OHM ±5% 1/16W	R2417	0700046	CF 2.7K OHM ±5% 1/16W
R2362	0700055	CF 12K OHM ±5% 1/16W	R2419	0700065	CF 68K OHM ±5% 1/16W
R2363	0700041	CF 1K OHM ±5% 1/16W	R2420	0700066	CF 82K OHM ±5% 1/16W
R2364	0700049	CF 4.7K OHM ±5% 1/16W	R2421	0700054	CF 10K OHM ±5% 1/16W
R2365	0700061	CF 33K OHM ±5% 1/16W	R2422	0187090	CF 11K OHM ±5% 1/16W
R2366	0700041	CF 1K OHM ±5% 1/16W	R2423	0700053	CF 8.2K OHM ±5% 1/16W
R2367	0700053	CF 8.2K OHM ±5% 1/16W	R2424	0187110	CF 75K OHM ±5% 1/16W
R2368	0700041	CF 1K OHM ±5% 1/16W	R2425	0700038	CF 680 OHM ±5% 1/16W
R2369	0700051	CF 5.6K OHM ±5% 1/16W	R2426	0700061	CF 33K OHM ±5% 1/16W
R2370	0700041	CF 1K OHM ±5% 1/16W	R2427	0700049	CF 4.7K OHM ±5% 1/16W
R2371	0700048	CF 3.9K OHM ±5% 1/16W	R2428	0700058	CF 22K OHM ±5% 1/16W
			R2429	0114177	CF 4.7K OHM ±5% 1/4W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R2441	0100124	CF 300K OHM ±5% 1/8W	R305	0700038	CF 680 OHM ±5% 1/16W
R2443	0700062	CF 39K OHM ±5% 1/16W	R306	0700063	CF 47K OHM ±5% 1/16W
R2445	0700052	CF 6.8K OHM ±5% 1/16W	R307	0100055	CF 390 OHM ±5% 1/8W
R2446	0700054	CF 10K OHM ±5% 1/16W	R308	0700041	CF 1K OHM ±5% 1/16W
R2447	0700067	CF 100K OHM ±5% 1/16W	R309	0700039	CF 820 OHM ±5% 1/16W
R2448	0700064	CF 56K OHM ±5% 1/16W	R310	0700039	CF 820 OHM ±5% 1/16W
R2449	0700063	CF 47K OHM ±5% 1/16W	R311	0700041	CF 1K OHM ±5% 1/16W
R2450	0700042	CF 1.2K OHM ±5% 1/16W	R312	0700027	CF 100 OHM ±5% 1/16W
R2451	0100081	CF 4.7K OHM ±5% 1/8W	R313	0700054	CF 10K OHM ±5% 1/16W
R2466	0700052	CF 6.8K OHM ±5% 1/16W	R314	0700037	CF 560 OHM ±5% 1/16W
R2470	0700067	CF 100K OHM ±5% 1/16W	R315	0700061	CF 33K OHM ±5% 1/16W
R2471	0700054	CF 10K OHM ±5% 1/16W	R316	0700051	CF 5.6K OHM ±5% 1/16W
R2473	0700052	CF 6.8K OHM ±5% 1/16W	R317	0700045	CF 2.2K OHM ±5% 1/16W
R2474	0700051	CF 5.6K OHM ±5% 1/16W	R318	0700049	CF 4.7K OHM ±5% 1/16W
R2479	0700066	CF 82K OHM ±5% 1/16W	R319	0700054	CF 10K OHM ±5% 1/16W
R2481	0700032	CF 220 OHM ±5% 1/16W	R320	0700058	CF 22K OHM ±5% 1/16W
R2482	0700032	CF 220 OHM ±5% 1/16W	R321	0150137	VR 10K OHM-B
R2483	0700032	CF 220 OHM ±5% 1/16W	R322	0700059	CF 27K OHM ±5% 1/16W
R2484	0700032	CF 220 OHM ±5% 1/16W	R323	0700059	CF 27K OHM ±5% 1/16W
R2485	0700032	CF 220 OHM ±5% 1/16W	R324	0700048	CF 3.9K OHM ±5% 1/16W
R2486	0700032	CF 220 OHM ±5% 1/16W	R325	0700054	CF 10K OHM ±5% 1/16W
R2487	0700032	CF 220 OHM ±5% 1/16W	R326	0700041	CF 1K OHM ±5% 1/16W
R2488	0700032	CF 220 OHM ±5% 1/16W	R327	0700034	CF 330 OHM ±5% 1/16W
R2489	0700032	CF 220 OHM ±5% 1/16W	R328	0114137	CF 180 OHM ±5% 1/4W
R2490	0700032	CF 220 OHM ±5% 1/16W	R3301	0700029	CF 150 OHM ±5% 1/16W
R3002	0100041	CF 100 OHM ±5% 1/8W	R3302	0700043	CF 1.5K OHM ±5% 1/16W
R3003	0100038	CF 72 OHM ±5% 1/8W	R3303	0700046	CF 2.7K OHM ±5% 1/16W
R3004	0100041	CF 100 OHM ±5% 1/8W	R3304	0700043	CF 1.5K OHM ±5% 1/16W
R3005	0100038	CF 72 OHM ±5% 1/8W	R3305	0700045	CF 2.2K OHM ±5% 1/16W
R3006	0100041	CF 100 OHM ±5% 1/8W	R3306	0700037	CF 560 OHM ±5% 1/16W
R3007	0700067	CF 100K OHM ±5% 1/16W	R3307	0700041	CF 1K OHM ±5% 1/16W
R3008	0100037	CF 68 OHM ±5% 1/8W	R3308	0700058	CF 22K OHM ±5% 1/16W
R3009	0700049	CF 4.7K OHM ±5% 1/16W	R3309	0700058	CF 22K OHM ±5% 1/16W
R301	0700035	CF 390 OHM ±5% 1/16W	R3310	0700058	CF 22K OHM ±5% 1/16W
R3010	0700034	CF 330 OHM ±5% 1/16W	R3315	0700056	CF 15K OHM ±5% 1/16W
R3011	0114141	CF 270 OHM ±5% 1/4W	R3316	0700046	CF 2.7K OHM ±5% 1/16W
R3012	0700039	CF 820 OHM ±5% 1/16W	R3317	0150286	VR 5K OHM B
R3013	0700041	CF 1K OHM ±5% 1/16W	R3318	0700048	CF 3.9K OHM ±5% 1/16W
R3016	0700067	CF 100K OHM ±5% 1/16W	R3319	0700052	CF 6.8K OHM ±5% 1/16W
R3017	0700063	CF 47K OHM ±5% 1/16W	R332	0700027	CF 100 OHM ±5% 1/16W
R3018	0700037	CF 560 OHM ±5% 1/16W	R3328	0100117	CF 150K OHM ±5% 1/8W
R3019	0700041	CF 1K OHM ±5% 1/16W	R3329	0700039	CF 820 OHM ±5% 1/16W
R302	0700042	CF 1.2K OHM ±5% 1/16W	R333	0100053	CF 330 OHM ±5% 1/8W
R3021	0187066	CF 1.1K OHM ±5% 1/16W	R3330	0700049	CF 4.7K OHM ±5% 1/16W
R3022	0700063	CF 47K OHM ±5% 1/16W	R3331	0700049	CF 4.7K OHM ±5% 1/16W
R3023	0700064	CF 56K OHM ±5% 1/16W	R3332	0100123	CF 270K OHM ±5% 1/8W
R3024	0700045	CF 2.2K OHM ±5% 1/16W	R3333	0700041	CF 1K OHM ±5% 1/16W
R3025	0700041	CF 1K OHM ±5% 1/16W	R3334	0700023	CF 47 OHM ±5% 1/16W
R3026	0700041	CF 1K OHM ±5% 1/16W	R3335	0700054	CF 10K OHM ±5% 1/16W
R3027	0100049	CF 220 OHM ±5% 1/8W	R3336	0700058	CF 22K OHM ±5% 1/16W
R303	0700062	CF 39K OHM ±5% 1/16W	R3337	0700054	CF 10K OHM ±5% 1/16W
R304	0700063	CF 47K OHM ±5% 1/16W			

CU5000K/CU4600B

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R3338	0700041	CF 1K OHM ±5% 1/16W	R4030	0700045	CF 2.2K OHM ±5% 1/16W
R3339	0700027	CF 100 OHM ±5% 1/16W	R4403	0700067	CF 100K OHM ±5% 1/16W
R334	0700045	CF 2.2K OHM ±5% 1/16W	R4404	0700067	CF 100K OHM ±5% 1/16W
R3342	0700067	CF 100K OHM ±5% 1/16W	R4405	0700067	CF 100K OHM ±5% 1/16W
R3345	0700058	CF 22K OHM ±5% 1/16W	R4406	0700067	CF 100K OHM ±5% 1/16W
R3346	0700058	CF 22K OHM ±5% 1/16W	R4407	0700067	CF 100K OHM ±5% 1/16W
R3347	0700041	CF 1K OHM ±5% 1/16W	R4408	0700067	CF 100K OHM ±5% 1/16W
R3349	0700067	CF 100K OHM ±5% 1/16W	R4409	0700067	CF 100K OHM ±5% 1/16W
R335	0700041	CF 1K OHM ±5% 1/16W	R4410	0700064	CF 56K OHM ±5% 1/16W
R3350	0700051	CF 5.6K OHM ±5% 1/16W	R4411	0700064	CF 56K OHM ±5% 1/16W
R3351	0700047	CF 3.3K OHM ±5% 1/16W	R4412	0700067	CF 100K OHM ±5% 1/16W
R3352	0700051	CF 5.6K OHM ±5% 1/16W	R4413	0700067	CF 100K OHM ±5% 1/16W
R3354	0700066	CF 82K OHM ±5% 1/16W	R4414	0700067	CF 100K OHM ±5% 1/16W
R3355	0100067	CF 1.2K OHM ±5% 1/8W	R4415	0700067	CF 100K OHM ±5% 1/16W
R3356	0100041	CF 100 OHM ±5% 1/8W	R4416	0700067	CF 100K OHM ±5% 1/16W
R3357	0700042	CF 1.2K OHM ±5% 1/16W	R4417	0700067	CF 100K OHM ±5% 1/16W
R336	0700028	CF 120 OHM ±5% 1/16W	R4418	0700067	CF 100K OHM ±5% 1/16W
R338	0700028	CF 120 OHM ±5% 1/16W	R4419	0700067	CF 100K OHM ±5% 1/16W
R339	0700022	CF 39 OHM ±5% 1/16W	R4420	0700067	CF 100K OHM ±5% 1/16W
R340	0700058	CF 22K OHM ±5% 1/16W	R4421	0700067	CF 100K OHM ±5% 1/16W
R341	0700058	CF 22K OHM ±5% 1/16W	R4422	0700054	CF 10K OHM ±5% 1/16W
R342	0700058	CF 22K OHM ±5% 1/16W	R4423	0700054	CF 10K OHM ±5% 1/16W
R343	0700067	CF 100K OHM ±5% 1/16W	R4424	0700058	CF 22K OHM ±5% 1/16W
R344	0700054	CF 10K OHM ±5% 1/16W	R4425	0700058	CF 22K OHM ±5% 1/16W
R345	0700049	CF 4.7K OHM ±5% 1/16W	R4426	0700058	CF 22K OHM ±5% 1/16W
R346	0700027	CF 100 OHM ±5% 1/16W	R4427	0700058	CF 22K OHM ±5% 1/16W
R347	0100037	CF 68 OHM ±5% 1/8W	R4428	0700063	CF 47K OHM ±5% 1/16W
R350	0100119	CF 180K OHM ±5% 1/8W	R4429	0700045	CF 2.2K OHM ±5% 1/16W
R4002	0100065	CF 1K OHM ±5% 1/8W	R4430	0151717	VR 5K OHM-B R-8
R4004	0100065	CF 1K OHM ±5% 1/8W	R4431	0700045	CF 2.2K OHM ±5% 1/16W
R4005	0100113	CF 100K OHM ±5% 1/8W	R4432	0113725	CF 100 OHM ±5% 1/2W
R4006	0100065	CF 1K OHM ±5% 1/8W	R4433	0700027	CF 100 OHM ±5% 1/16W
R4007	0100113	CF 100K OHM ±5% 1/8W	R4434	0700063	CF 47K OHM ±5% 1/16W
R4008	0100065	CF 1K OHM ±5% 1/8W	R4435	0700066	CF 82K OHM ±5% 1/16W
R4009	0100113	CF 100K OHM ±5% 1/8W	R4436	0700067	CF 100K OHM ±5% 1/16W
R4010	0100065	CF 1K OHM ±5% 1/8W	R4437	0700067	CF 100K OHM ±5% 1/16W
R4011	0100113	CF 100K OHM ±5% 1/8W	R4438	0700067	CF 100K OHM ±5% 1/16W
R4012	0100065	CF 1K OHM ±5% 1/8W	R4439	0700051	CF 5.6K OHM ±5% 1/16W
R4013	0100113	CF 100K OHM ±5% 1/8W	R4440	0700051	CF 5.6K OHM ±5% 1/16W
R4014	0100065	CF 1K OHM ±5% 1/8W	R4441	0700054	CF 10K OHM ±5% 1/16W
R4015	0100113	CF 100K OHM ±5% 1/8W	R4442	0700053	CF 8.2K OHM ±5% 1/16W
R4016	0100065	CF 1K OHM ±5% 1/8W	R4443	0700053	CF 8.2K OHM ±5% 1/16W
R4017	0700045	CF 2.2K OHM ±5% 1/16W	R4444	0700053	CF 8.2K OHM ±5% 1/16W
R4018	0700045	CF 2.2K OHM ±5% 1/16W	R4445	0700056	CF 15K OHM ±5% 1/16W
R4019	0700034	CF 330 OHM ±5% 1/16W	R4446	0700045	CF 2.2K OHM ±5% 1/16W
R4020	0700034	CF 330 OHM ±5% 1/16W	R4447	0700052	CF 6.8K OHM ±5% 1/16W
R4021	0700049	CF 4.7K OHM ±5% 1/16W	R4448	0700049	CF 4.7K OHM ±5% 1/16W
R4022	0700048	CF 3.9K OHM ±5% 1/16W	R4449	0700054	CF 10K OHM ±5% 1/16W
R4023	0700049	CF 4.7K OHM ±5% 1/16W	R4450	0700054	CF 10K OHM ±5% 1/16W
R4024	0700048	CF 3.9K OHM ±5% 1/16W	R4451	0700041	CF 1K OHM ±5% 1/16W
R4029	0700045	CF 2.2K OHM ±5% 1/16W	R4452	0700031	CF 180 OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R4453	0187096	CF 20K OHM ±5% 1/16W	R4605	0100085	CF 6.8K OHM ±5% 1/8W
R4454	0187096	CF 20K OHM ±5% 1/16W	R4606	0100049	CF 220 OHM ±5% 1/8W
R4455	0114145	CF 390 OHM ±5% 1/4W	R4607	0100093	CF 15K OHM ±5% 1/8W
R4456	0114145	CF 390 OHM ±5% 1/4W	R4610	0114142	CF 300 OHM ±5% 1/4W
R4457	0119514	FR 10 OHM ±5% 1/4W	R4611	0114142	CF 300 OHM ±5% 1/4W
R4458	0100123	CF 270K OHM ±5% 1/8W	R4612	01195051	FR 2.2 OHM ±5% 1/4W
R4459	0100117	CF 150K OHM ±5% 1/8W	R4613	01195051	FR 2.2 OHM ±5% 1/4W
R4460	0700063	CF 47K OHM ±5% 1/16W	R4614	0119514	FR 10 OHM ±5% 1/4W
R4461	0100077	CF 3.3K OHM ±5% 1/8W	R4615	0100085	CF 6.8K OHM ±5% 1/8W
R4462	0700064	CF 56K OHM ±5% 1/16W	R4616	0700032	CF 220 OHM ±5% 1/16W
R4463	0187100	CF 30K OHM ±5% 1/16W	R4617	0700056	CF 15K OHM ±5% 1/16W
R4464	01195051	FR 2.2 OHM ±5% 1/4W	R4618	0100099	CF 27K OHM ±5% 1/8W
R4465	0700067	CF 100K OHM ±5% 1/16W	R4619	0700051	CF 5.6K OHM ±5% 1/16W
R4466	0700067	CF 100K OHM ±5% 1/16W	R4620	0100065	CF 1K OHM ±5% 1/8W
R4501	0700041	CF 1K OHM ±5% 1/16W	R4621	0119514	FR 10 OHM ±5% 1/4W
R4502	0700041	CF 1K OHM ±5% 1/16W	R4629	0700054	CF 10K OHM ±5% 1/16W
R4503	0700027	CF 100 OHM ±5% 1/16W	R4630	0700054	CF 10K OHM ±5% 1/16W
R4504	0700027	CF 100 OHM ±5% 1/16W	R4631	0700054	CF 10K OHM ±5% 1/16W
R4506	0700027	CF 100 OHM ±5% 1/16W	R4632	0700054	CF 10K OHM ±5% 1/16W
R4507	0700027	CF 100 OHM ±5% 1/16W	R4634	0100065	CF 1K OHM ±5% 1/8W
R4508	0700027	CF 100 OHM ±5% 1/16W	R4635	0100065	CF 1K OHM ±5% 1/8W
R4509	0700027	CF 100 OHM ±5% 1/16W	R4636	0700041	CF 1K OHM ±5% 1/16W
R4510	0700027	CF 100 OHM ±5% 1/16W	R4637	0700041	CF 1K OHM ±5% 1/16W
R4511	0700051	CF 5.5K OHM ±5% 1/16W	R4638	0700067	CF 100K OHM ±5% 1/16W
R4512	0700051	CF 5.5K OHM ±5% 1/16W	R4639	0700067	CF 100K OHM ±5% 1/16W
R4513	0700038	CF 680 OHM ±5% 1/16W	R4640	0700054	CF 10K OHM ±5% 1/16W
R4514	0187052	CF 300 OHM ±5% 1/16W	R4641	0700054	CF 10K OHM ±5% 1/16W
R4515	0700036	CF 470 OHM ±5% 1/16W	R4642	0700044	CF 1.8K OHM ±5% 1/16W
R4516	0700036	CF 470 OHM ±5% 1/16W	R4643	0700044	CF 1.8K OHM ±5% 1/16W
R4517	0700041	CF 1K OHM ±5% 1/16W	R4644	0100065	CF 1K OHM ±5% 1/8W
R4518	0700038	CF 680 OHM ±5% 1/16W	R4645	0100065	CF 1K OHM ±5% 1/8W
R4519	0187052	CF 300 OHM ±5% 1/16W	R4646	0700054	CF 10K OHM ±5% 1/16W
R4520	0700036	CF 470 OHM ±5% 1/16W	R4647	0700067	CF 100K OHM ±5% 1/16W
R4521	0700036	CF 470 OHM ±5% 1/16W	R501	0100041	CF 100 OHM ±5% 1/8W
R4522	0700041	CF 1K OHM ±5% 1/16W	R502	0700039	CF 820 OHM ±5% 1/16W
R4523	0700027	CF 100 OHM ±5% 1/16W	R503	0700037	CF 560 OHM ±5% 1/16W
R4524	0700051	CF 5.6K OHM ±5% 1/16W	R504	0700037	CF 560 OHM ±5% 1/16W
R4525	0700051	CF 5.6K OHM ±5% 1/16W	R505	0700038	CF 680 OHM ±5% 1/16W
R4526	0700038	CF 680 OHM ±5% 1/16W	R506	0100047	CF 180 OHM ±5% 1/8W
R4527	0187052	CF 300 OHM ±5% 1/16W	R507	0700041	CF 1K OHM ±5% 1/16W
R4529	0700036	CF 470 OHM ±5% 1/16W	R508	0700041	CF 1K OHM ±5% 1/16W
R4530	0700041	CF 1K OHM ±5% 1/16W	R509	0700063	CF 47K OHM ±5% 1/16W
R4531	0700038	CF 680 OHM ±5% 1/16W	R510	0700063	CF 47K OHM ±5% 1/16W
R4532	0187052	CF 300 OHM ±5% 1/16W	R511	0700027	CF 100 OHM ±5% 1/16W
R4534	0700036	CF 470 OHM ±5% 1/16W	R512	0700037	CF 560 OHM ±5% 1/16W
R4535	0700041	CF 1K OHM ±5% 1/16W	R513	0700041	CF 1K OHM ±5% 1/16W
R4536	0110317	MF 68 OHM ±5% 3W	R514	0150283	VR 1K OHM-B
R4601	0114142	CF 300 OHM ±5% 1/4W	R515	0700037	CF 560 OHM ±5% 1/16W
R4602	0114142	CF 300 OHM ±5% 1/4W	R516	0700037	CF 560 OHM ±5% 1/16W
R4603	01195051	FR 2.2 OHM ±5% 1/4W	R517	0700037	CF 560 OHM ±5% 1/16W
R4604	01195051	FR 2.2 OHM ±5% 1/4W	R518	0700038	CF 680 OHM ±5% 1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R519	0150283	VR 1K OHM-B	R619	0100094	CF 16K OHM ±5% 1/8W
R520	0150286	VR 5K OHM-B	R620	0100099	CF 27K OHM ±5% 1/8W
R521	0700045	CF 2.2K OHM ±5% 1/16W	R621	0187084	CF 6.2K OHM ±5% 1/16W
R522	0700041	CF 1K OHM ±5% 1/16W	R622	0150132	VR 200 OHM-B
R523	0700037	CF 560 OHM ±5% 1/16W	R623	0700026	CF 82 OHM ±5% 1/16W
R524	0700027	CF 100 OHM ±5% 1/16W	R624	0113684	CF 2.2 OHM ±5% 1/2W
R525	0700045	CF 2.2K OHM ±5% 1/16W	R625	0113684	CF 2.2 OHM ±5% 1/2W
R526	0700041	CF 1K OHM ±5% 1/16W	R627	0700058	CF 22K OHM ±5% 1/16W
R529	0700062	CF 39K OHM ±5% 1/16W	R628	0700054	CF 10K OHM ±5% 1/16W
R530	0700061	CF 33K OHM ±5% 1/16W	R651	0113725	CF 100 OHM ±5% 1/2W
R531	0700049	CF 4.7K OHM ±5% 1/16W	R652	0113725	CF 100 OHM ±5% 1/2W
R532	0700049	CF 4.7K OHM ±5% 1/16W	R653	0113725	CF 100 OHM ±5% 1/2W
R533	0100129	CF 470K OHM ±5% 1/8W	R655	0110237	MF 470 OHM ±5% 2W
R534	0700067	CF 100K OHM ±5% 1/16W	R7001	0700039	CF 820 OHM ±5% 1/16W
R535	0700054	CF 10K OHM ±5% 1/16W	R7002	0100115	CF 120K OHM ±5% 1/8W
R536	0700054	CF 10K OHM ±5% 1/16W	R7003	0187082	CF 5.1K OHM ±5% 1/16W
R537	0700046	CF 2.7K OHM ±5% 1/16W	R7004	0700046	CF 2.7K OHM ±5% 1/16W
R538	0150286	VR 5K OHM B	R7005	0700024	CF 56 OHM ±5% 1/16W
R539	0700054	CF 10K OHM ±5% 1/16W	R7006	0700047	CF 3.3K OHM ±5% 1/16W
R540	0700027	CF 100 OHM ±5% 1/16W	R7007	0700033	CF 270 OHM ±5% 1/16W
R541	0700027	CF 100 OHM ±5% 1/16W	R7008	0114133	CF 120 OHM ±5% 1/4W
R542	0700027	CF 100 OHM ±5% 1/16W	R7009	0700046	CF 2.7K OHM ±5% 1/16W
R543	0700058	CF 22K OHM ±5% 1/16W	R7010	0700049	CF 4.7K OHM ±5% 1/16W
R544	0700058	CF 22K OHM ±5% 1/16W	R7011	0700049	CF 4.7K OHM ±5% 1/16W
R545	0700047	CF 3.3K OHM ±5% 1/16W	R7012	0700054	CF 10K OHM ±5% 1/16W
R546	0700041	CF 1K OHM ±5% 1/16W	R7013	0700041	CF 1K OHM ±5% 1/16W
R547	0700036	CF 470 OHM ±5% 1/16W	R7014	0700054	CF 10K OHM ±5% 1/16W
R548	0700049	CF 4.7K OHM ±5% 1/16W	R7015	0700041	CF 1K OHM ±5% 1/16W
R549	0700063	CF 47K OHM ±5% 1/16W	R7016	01195121	FR 1 OHM ±5% 1/4W
R550	0700063	CF 47K OHM ±5% 1/16W	R7017	0100057	CF 470 OHM ±5% 1/8W
R551	0100053	CF 330 OHM ±5% 1/8W	R7018	0114163	CF 1.2K OHM ±5% 1/4W
R552	0700065	CF 68K OHM ±5% 1/16W	R707	0700023	CF 47 OHM ±5% 1/16W
R553	0700061	CF 33K OHM ±5% 1/16W	⚠ R708	0110367	MF 8.2K OHM ±5% 3W
R601	0700041	CF 1K OHM ±5% 1/16W	R709	0113752	CF 1.2K OHM ±5% 1/2W
R602	0700046	CF 2.7K OHM ±5% 1/16W	⚠ R710	0110369	MF 10K OHM ±5% 3W
R603	0100121	CF 220K OHM ±5% 1/8W	R711	0119688	MF 0.22 OHM ±5% 1W
R604	0700046	CF 2.7K OHM ±5% 1/16W	R712	0100039	CF 82 OHM ±5% 1/8W
R605	0700046	CF 2.7K OHM ±5% 1/16W	⚠ R715	0119693	MF 0.39 OHM ±5% 1W
R606	0700051	CF 5.6K OHM ±5% 1/16W	R716	0100079	CF 3.9K OHM ±5% 1/8W
R607	0700061	CF 33K OHM ±5% 1/16W	R717	0113783	CF 22K OHM ±5% 1/2W
R608	0100121	CF 220K OHM ±5% 1/8W	R719	0113789	CF 39K OHM ±5% 1/2W
R609	0700061	CF 33K OHM ±5% 1/16W	R720	0700054	CF 10K OHM ±5% 1/16W
R610	0700027	CF 100 OHM ±5% 1/16W	R721	0113793	CF 56K OHM ±5% 1/2W
R611	0100041	CF 100 OHM ±5% 1/8W	R722	0100091	CF 12K OHM ±5% 1/8W
R612	0100053	CF 330 OHM ±5% 1/8W	R723	0700044	CF 1.8K OHM ±5% 1/16W
R613	0700056	CF 15K OHM ±5% 1/16W	R724	0700052	CF 6.8K OHM ±5% 1/16W
R614	0700048	CF 3.9K OHM ±5% 1/16W	R726	0700048	CF 3.9K OHM ±5% 1/16W
R615	0700066	CF 82K OHM ±5% 1/16W	R727	0700048	CF 3.9K OHM ±5% 1/16W
R616	0700056	CF 15K OHM ±5% 1/16W	R728	0187086	CF 7.5K OHM ±5% 1/16W
R617	0700056	CF 15K OHM ±5% 1/16W	R729	0114061	CF 68 OHM ±5% 1/4W
R618	0100113	CF 100K OHM ±5% 1/8W	R732	0114145	CF 390 OHM ±5% 1/4W

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
R733	01195051	FR 2.2 OHM ±5% 1/4W	R805G	0179534	MG 470K OHM ±5% 1/2W
⚠R734	0119514	FR 10 OHM ±5% 1/4W	R805R	0179534	MG 470K OHM ±5% 1/2W
R736	0700054	CF 10K OHM±5% 1/16W	R806B	0179534	MG 470K OHM ±5% 1/2W
R737	0700027	CF 100 OHM±5% 1/16W	R806G	0179534	MG 470K OHM ±5% 1/2W
R739	0110151	MF 1.8K OHM ±5% 1W	R806R	0179534	MG 470K OHM ±5% 1/2W
⚠R741	0700041	CF 1K OHM ±5% 1/16W	R810B	0100049	CF 220 OHM ±5% 1/8W
⚠R742	0187104	CF 43K OHM±5% 1/16W	R810G	0100049	CF 220 OHM ±5% 1/8W
R744	0100127	CF 390K OHM ±5% 1/8W	R810R	0100049	CF 220 OHM ±5% 1/8W
R748	0700041	CF 1K OHM ±5% 1/16W	R811B	0100061	CF 680 OHM ±5% 1/8W
R749	0700041	CF 1K OHM ±5% 1/16W	R811G	0100061	CF 680 OHM ±5% 1/8W
R750	0100075	CF 2.7K OHM ±5% 1/8W	R811R	0100061	CF 680 OHM ±5% 1/8W
R751	0114059	CF 56 OHM ±5% 1/4W	R812B	0100038	CF 75 OHM ±5% 1/8W
R752	0110173	MF 15K OHM±5% 1W	R812G	0100033	CF 47 OHM ±5% 1/8W
R753	0110165	MF 6.8K OHM ±5% 1W	R812R	0100033	CF 47 OHM ±5% 1/8W
R754	0100076	CF 3K OHM ±5% 1/8W	R813G	01513341	VR 200 OHM-B
R755	0110253	MF 2.2K OHM ±5% 2W	R813R	01513341	VR 200 OHM-B
R758	0100065	CF 1K OHM ±5% 1/8W	R814R	0100041	CF 100 OHM ±5% 1/8W
R759	0700045	CF 2.2K OHM ±5% 1/16W	R815B	0100059	CF 560 OHM ±5% 1/8W
R760	0700051	CF 5.6K OHM ±5% 1/16W	R815G	0100059	CF 560 OHM ±5% 1/8W
R761	0700057	CF 18K OHM ±5% 1/16W	R815R	0100059	CF 560 OHM ±5% 1/8W
R762	0700056	CF 15K OHM ±5% 1/16W	R816B	0100089	CF 10K OHM ±5% 1/8W
⚠R763	0150287	VR 10K OHM-B	R816G	0100089	CF 10K OHM ±5% 1/8W
R764	0700038	CF 680 OHM ±5% 1/16W	R816R	0100089	CF 10K OHM ±5% 1/8W
R765	0700057	CF 18K OHM ±5% 1/16W	R817B	0100041	CF 100 OHM ±5% 1/8W
R767	0700054	CF 10K OHM ±5% 1/16W	R817G	0100041	CF 100 OHM ±5% 1/8W
R768	0114149	CF 560 OHM ±5% 1/4W	R817R	0100053	CF 330 OHM ±5% 1/8W
R769	0700054	CF 10K OHM ±5% 1/16W	⚠R9001	0141123	WW 33 OHM ±5% 2W
R770	0100117	CF 150K OHM ±5% 1/8W	R9002	0113754	CF 1.5K OHM ±5% 1/2W
R771	0700049	CF 4.7K OHM ±5% 1/16W	R9003	0113754	CF 1.5K OHM ±5% 1/2W
R772	0100049	CF 220 OHM ±5% 1/8W	R9005	0700027	CF 100 OHM ±5% 1/16W
R773	0700048	CF 3.9K OHM ±5% 1/16W	R9006	0700054	CF 10K OHM ±5% 1/16W
R782	0100089	CF 10K OHM ±5% 1/8W	R9007	0700055	CF 12K OHM ±5% 1/16W
R783	0110171	MF 12K OHM ±5% 1W	⚠R9010	0139015	CC 1M OHM ±20% 1/2W
R785	0100085	CF 6.8K OHM ±5% 1/8W	⚠R904	0147804	WW 0.75 OHM 16W
R786	0700041	CF 1K OHM ±5% 1/16W	R906	0114049	CF 22 OHM ±5% 1/4W
R787	0100073	CF 2.2K OHM ±5% 1/8W	R907	0114161	CF 1K OHM ±5% 1/4W
R788	0113742	CF 470 OHM ±5% 1/2W	R908	0145042	MF 22K OHM ±5% 5W
R789	0700039	CF 820 OHM ±5% 1/16W	⚠R909	0147658	WW 100 OHM ±5% 7W
R801B	0110371	MF 12K OHM ±5% 3W	R910	0110277	MF 22K OHM ±5% 2W
R801G	0110371	MF 12K OHM ±5% 3W	R911	0113795	CF 68K OHM ±5% 1/2W
R801R	0110371	MF 12K OHM ±5% 3W	⚠R912	0148012	WW 0.10 OHM ±10% 2W
R802B	0110369	MF 10K OHM ±5% 3W	R913	0700041	CF 1K OHM ±5% 1/16W
R802G	0110369	MF 10K OHM ±5% 3W	R915	0100025	CF 22 OHM ±5% 1/8W
R802R	0110369	MF 10K OHM ±5% 3W	R917	0700033	CF 270 OHM ±5% 1/16W
R803B	0113744	CF 560 OHM ±5% 1/2W	R918	0187064	CF 910 OHM ±5% 1/16W
R803G	0113744	CF 560 OHM ±5% 1/2W	R919	0700061	CF 33K OHM ±5% 1/16W
R803R	0113744	CF 560 OHM ±5% 1/2W	R920	0700058	CF 22K OHM ±5% 1/16W
R804B	0151635	VR 1M OHM-B	R921	0700039	CF 820 OHM ±5% 1/16W
R804G	0151635	VR 1M OHM-B	R922	0700059	CF 27K OHM ±5% 1/16W
R804R	0151635	VR 1M OHM-B	⚠R926	0147552	WW 33 OHM ±5% 5W
R805B	0179534	MG 470K OHM ±5% 1/2W	⚠R927	0110267	MF 8.2K OHM ±5% 2W

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SYMBOL NO.	PARTS NO.	DESCRIPTION
R928	0700037	CF 560 OHM ±5% 1/16W
R929	0700045	CF 2.2K OHM ±5% 1/16W
R930	0700058	CF 22K OHM ±5% 1/16W
R931	0700056	CF 15K OHM ±5% 1/16W
R932	0700027	CF 100 OHM ±5% 1/16W
R935	0700061	CF 33K OHM ±5% 1/16W
R937	0700014	CF 10 OHM ±5% 1/16W
R951	0100029	CF 33 OHM ±5% 1/8W
R952	0700063	CF 47K OHM ±5% 1/16W
R953	0119688	MF 0.22 OHM ±5% 1W
R954	0119688	MF 0.22 OHM ±5% 1W
R955	0100089	CF 10K OHM ±5% 1/8W
R956	0100089	CF 10K OHM ±5% 1/8W
R957	0700041	CF 1K OHM ±5% 1/16W
R958	0700044	CF 1.8K OHM ±5% 1/16W
R959	0700054	CF 10K OHM ±5% 1/16W
R960	0113766	CF 4.7K OHM ±5% 1/2W
R961	0113797	CF 82K OHM ±5% 1/2W
R962	0113766	CF 4.7K OHM ±5% 1/2W
R963	0113766	CF 4.7K OHM ±5% 1/2W
R965	0700041	CF 1K OHM ±5% 1/16W
R966	0700046	CF 2.7K OHM ±5% 1/16W
R967	0700046	CF 2.7K OHM ±5% 1/16W
R971	0700036	CF 470 OHM ±5% 1/16W
R972	0700049	CF 4.7K OHM ±5% 1/16W
R973	0700037	CF 560 OHM ±5% 1/16W
⚠R975	0119693	MF 0.39 OHM ±5% 1W

ICs

IC0101	2381862	IC MN152121HX
IC0102	2381111	IC M6M80021L
IC0103	2380391	IC UPD6326C
IC0401	2383421	IC UPC1870CA-001
IC2001	2361411	IC HD14520BP
IC2101	2383191	IC LA7990
IC2102	2914051	IC NJM4560D
IC2103	2914051	IC NJM4560D
IC2104	2914051	IC NJM4560D
IC2105	2914051	IC NJM4560D
IC3001	2914951	IC HA11508
IC3002	2914951	IC HA11508
IC3003	2917611	IC LA7016
IC3004	2917611	IC LA7016
IC3301	2381832	IC HA11559NT
IC4401	2362606	IC NJM4558D
IC4402	2362606	IC NJM4558D
IC4403	2362606	IC NJM4558D
IC4404	2380041	IC MN3008
IC4405	2380051	IC MN3101
IC4406	2362651	IC HD14053BP
IC4407	2363191	IC HD14066BP
IC4408	2366301	IC UPD4052BC
IC4409	2362606	IC NJM4558D
IC4410	2362606	IC NJM4558D
IC4411	2916051	IC TA7629P
IC4412	2380425	IC MC7815CT
IC4501	2366392	IC AN5836
IC4502	2366392	IC AN5836
IC4601	2916321	IC LA4280
IC4602	2916321	IC LA4280
IC501	2916633	IC HA11511CNT
IC601	2913981	IC AN5521
⚠IC901	2380131	IC MPC1094C
⚠IC902	2381344	IC SE130N
⚠IC903	2913945	PHOTO COUPLER PS2501-1
⚠IC904	2913945	PHOTO COUPLER PS2501-1
⚠IC905	2913945	PHOTO COUPLER PS2501-1

TRANSISTORS

Q0101	2325702	TR 2SA854S Q/R
Q0102	2327783	TR 2SC3553 C/D
Q0103	2327772	TR 2SC3413(B)/(C)
Q0104	2327772	TR 2SC3413(B)/(C)
Q0105	2327772	TR 2SC3413(B)/(C)
Q0106	2327772	TR 2SC3413(B)/(C)
Q0108	2327783	TR 2SC3553 C/D
Q0109	2327772	TR 2SC3413(B)/(C)
Q0110	2327772	TR 2SC3413(B)/(C)
Q0111	2327772	TR 2SC3413(B)/(C)
Q0112	2320644	TR 2SC1213D
Q0114	2327753	TR 2SA1390(C)/(D)
Q0115	2327753	TR 2SA1390(C)/(D)
Q0401	2327772	TR 2SC3413(B)/(C)
Q0402	2327772	TR 2SC3413(B)/(C)
Q0403	2327772	TR 2SC3413(B)/(C)
Q0404	2327772	TR 2SC3413(B)/(C)
Q101	2326216	TR 2SC3116 S/T
Q1101	2327135	TR 2SD1266A-P(LT)
Q1102	2312873	TR 2SB941A-P(LT)
Q1203	2320663	TR 2SC1213AC
Q1204	2320663	TR 2SC1213AC
Q1205	2312561	TR 2SA984K
Q1206	2327134	TR 2SD1266A-P(VJ)
Q1207	2312873	TR 2SB941A-P(VJ)

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SYMBOL NO.	PARTS NO.	DESCRIPTION
Q1228	2320663	TR 2SC1213AC
Q1229	2320663	TR 2SC1213AC
Q1230	2312561	TR 2SA984K
Q1231	2327134	TR 2SD1266A-P(VJ)
Q1232	2312872	TR 2SB941A-P(VJ)
Q1253	2320663	TR 2SC1213AC
Q1254	2320663	TR 2SC1213AC
Q1255	2312561	TR 2SA984K
Q1256	2327134	TR 2SD1266A-P(VJ)
Q1257	2312872	TR 2SB941A-P(VJ)
Q1276	2327773	TR 2SC3413(C)/(D)
Q1277	2327773	TR 2SC3413(C)/(D)
Q1278	2327773	TR 2SC3413(C)/(D)
Q1279	2327773	TR 2SC3413(C)/(D)
Q1280	2320681	TR 2SA673A B/C
Q1301	2320663	TR 2SC1213AC
Q1302	2320663	TR 2SC1213AC
Q1303	2312561	TR 2SA984K
Q1304	2312532	TR 2SD1267A-P(VJ)
Q1305	2312522	TR 2SB942A-P(VJ)
Q1306	2320663	TR 2SC1213AC
Q1307	2320663	TR 2SC1213AC
Q1308	2312561	TR 2SA984K
Q1309	2312532	TR 2SD1267A-P(VJ)
Q1310	2312522	TR 2SB942A-P(VJ)
Q1311	2320663	TR 2SC1213AC
Q1312	2320663	TR 2SC1213AC
Q1313	2312873	TR 2SB941A-P(LT)
Q1314	2312532	TR 2SD1267A-P(VJ)
Q1315	2312522	TR 2SB942A-P(VJ)
Q1316	2320663	TR 2SC1213AC
Q1317	2320663	TR 2SC1213AC
Q1318	2312561	TR 2SA984K
Q1319	2312532	TR 2SD1267A-P(VJ)
Q1320	2312522	TR 2SB942A-P(VJ)
Q1321	2320663	TR 2SC1213AC
Q1322	2320663	TR 2SC1213AC
Q1323	2312561	TR 2SA984K
Q1324	2312532	TR 2SD1267A-P(VJ)
Q1325	2312522	TR 2SB942A-P(VJ)
Q1326	2320663	TR 2SC1213AC
Q1327	2320663	TR 2SC1213AC
Q1328	2312561	TR 2SA984K
Q1329	2312532	TR 2SD1267A-P(VJ)
Q1330	2312522	TR 2SB942A-P(VJ)
Q1386	2327773	TR 2SC3413(C)/(D)
Q1387	2327773	TR 2SC3413(C)/(D)
Q1388	2327753	TR 2SA1390(C)/(D)
Q1389	2327773	TR 2SC3413(C)/(D)
Q151	2323521	TR 2SD789 B/C/D/E
Q2001	2327772	TR 2SC3413(B)/(C)
Q2002	2327772	TR 2SC3413(B)/(C)
Q2003	2327772	TR 2SC3413(B)/(C)
Q2004	2327772	TR 2SC3413(B)/(C)
Q2005	2327772	TR 2SC3413(B)/(C)
Q2006	2327772	TR 2SC3413(B)/(C)
Q2007	2327772	TR 2SC3413(B)/(C)
Q2008	2327753	TR 2SA1390(C)/(D)
Q2009	2327772	TR 2SC3413(B)/(C)
Q2010	2327772	TR 2SC3413(B)/(C)
Q2011	2327753	TR 2SA1390(C)/(D)
Q2012	2327753	TR 2SA1390(C)/(D)
Q2014	2327772	TR 2SC3413(B)/(C)
Q2015	2327772	TR 2SC3413(B)/(C)
Q2016	2327772	TR 2SC3413(B)/(C)
Q2115	2320595	TR 2SC458(D)
Q2116	2320595	TR 2SC458(D)
Q2122	2320595	TR 2SC458(D)
Q2123	2320681	TR 2SA673A B/C
Q2124	2320681	TR 2SA673A B/C
Q2125	2320681	TR 2SA673A B/C
Q2126	2320595	TR 2SC458(D)
Q2130	2320595	TR 2SC458(D)
Q2131	2320595	TR 2SC458(D)
Q2133	2320595	TR 2SC458(D)
Q3001	2327772	TR 2SC3413(B)/(C)
Q3002	2327772	TR 2SC3413(B)/(C)
Q3003	2327772	TR 2SC3413(B)/(C)
Q3004	2326021	TR 2SC1741S
Q301	2325702	TR 2SA854S Q/R
Q302	2325702	TR 2SA854S Q/R
Q303	2327772	TR 2SC3413(B)/(C)
Q304	2327772	TR 2SC3413(B)/(C)
Q305	2325702	TR 2SA854S Q/R
Q306	2327772	TR 2SC3413(B)/(C)
Q307	2327772	TR 2SC3413(B)/(C)
Q308	2327783	TR 2SC3553 C/D
Q312	2325702	TR 2SA854S Q/R
Q313	2327772	TR 2SC3413(B)/(C)
Q314	2327772	TR 2SC3413(B)/(C)
Q315	2327772	TR 2SC3413(B)/(C)
Q3301	2327772	TR 2SC3413(B)/(C)
Q3302	2325772	TR 2SC3413(B)/(C)
Q3303	2327772	TR 2SC3413(B)/(C)
Q3304	2327772	TR 2SC3413(B)/(C)
Q3305	2327772	TR 2SC3413(B)/(C)
Q3306	2327772	TR 2SC3413(B)/(C)
Q3307	2327772	TR 2SC3413(B)/(C)
Q3312	2325702	TR 2SA854S Q/R
Q3313	2327753	TR 2SA1390(C)/(D)
Q4001	2327772	TR 2SC3413(B)/(C)
Q4002	2327772	TR 2SC3413(B)/(C)

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SYMBOL NO.	PARTS NO.	DESCRIPTION
Q4003	2327772	TR 2SC3413(B)/(C)
Q4004	2327772	TR 2SC3413(B)/(C)
Q4401	2327772	TR 2SC3413(B)/(C)
Q4402	2327772	TR 2SC3413(B)/(C)
Q4501	2320637	TR 2SA673C/D
Q4502	2320637	TR 2SA673C/D
Q4503	2320637	TR 2SA673C/D
Q4504	2320637	TR 2SA673C/D
Q4601	2327753	TR 2SA1390(C)/(D)
Q4602	2320637	TR 2SA673C/D
Q4604	2327772	TR 2SC3413(B)/(C)
Q4605	2327772	TR 2SC3413(B)/(C)
Q4606	2327772	TR 2SC3413(B)/(C)
Q4607	2327772	TR 2SC3413(B)/(C)
Q4608	2327772	TR 2SC3413(B)/(C)
Q4609	2327772	TR 2SC3413(B)/(C)
Q4610	2327772	TR 2SC3413(B)/(C)
Q501	2327772	TR 2SC3413(B)/(C)
Q502	2327772	TR 2SC3413(B)/(C)
Q503	2327772	TR 2SC3413(B)/(C)
Q504	2327772	TR 2SC3413(B)/(C)
Q505	2327772	TR 2SC3413(B)/(C)
Q506	2327772	TR 2SC3413(B)/(C)
Q507	2327772	TR 2SC3413(B)/(C)
Q508	2327772	TR 2SC3413(B)/(C)
Q509	2327772	TR 2SC3413(B)/(C)
Q510	2327772	TR 2SC3413(B)/(C)
Q601	2325702	TR 2SA854S Q/R
Q602	2327772	TR 2SC3413(B)/(C)
Q651	2312532	TR 2SD1267A-P(VJ)
Q7001	2323432	TR 2SC1983 R/O/Y
Q701	2326216	TR 2SC3116 S/T
Q707	2327772	TR 2SC3413(B)/(C)
Q708	2327753	TR 2SA1390(C)/(D)
Q709	2327883	TR 2SA1207
Q710	2323123	TR 2SD1133(D)
Q711	2327753	TR 2SA1390(C)/(D)
Q712	2327772	TR 2SC3413(B)/(C)
Q713	2327772	TR 2SC3413(B)/(C)
Q714	2327772	TR 2SC3413(B)/(C)
Q715	2327753	TR 2SA1390(C)/(D)
Q777	2327844	TR 2SD1959-02
Q801B	2312651	TR 2SC3503 C/D/E/F
Q801G	2312651	TR 2SC3503 C/D/E/F
Q801R	2312651	TR 2SC3503 C/D/E/F
Q802B	2327772	TR 2SC3413(B)/(C)
Q802G	2327772	TR 2SC3413(B)/(C)
Q802R	2327772	TR 2SC3413(B)/(C)
Q803B	2327753	TR 2SA1390(C)/(D)
Q803G	2327753	TR 2SA1390(C)/(D)
Q803R	2327753	TR 2SA1390(C)/(D)
Q9001	2323521	TR 2SD789 B/C/D/E
Q902	2312501	TR 2SK1206-01
⚠Q903	2323782	TR 03P2M
Q904	2323432	TR 2SC1983 R/O/Y
Q905	2327753	TR 2SA1390(C)/(D)
⚠Q906	2327753	TR 2SA1390(C)/(D)
⚠Q907	2327772	TR 2SC3413(B)/(C)
Q908	2327753	TR 2SA1390(C)/(D)

DIODES

D0102	23383211	DI 1SS270
D0103	23383211	DI 1SS270
D0104	23383211	DI 1SS270
D0105	23383211	DI 1SS270
D0106	23383211	DI 1SS270
D0107	23383211	DI 1SS270
D0109	23383211	DI 1SS270
D0110	23383211	DI 1SS270
D0111	23383211	DI 1SS270
D0112	23383211	DI 1SS270
D0113	23383211	DI 1SS270
D0114	23383211	DI 1SS270
D0115	23383211	DI 1SS270
D0116	23383211	DI 1SS270
D0117	23383211	DI 1SS270
D0118	23383211	DI 1SS270
D0119	23383211	DI 1SS270
D0120	23383211	DI 1SS270
D0401	23383211	DI 1SS270
D0402	23383211	DI 1SS270
D0403	23383211	DI 1SS270
D0404	23383211	DI 1SS270
D0405	23383211	DI 1SS270
D1276	2330351	DI 1S2076
D1301	2330351	DI 1S2076
D1302	2330351	DI 1S2076
D1303	2330351	DI 1S2076
D1304	2330351	DI 1S2076
D1305	2330351	DI 1S2076
D1306	2330351	DI 1S2076
D1307	2330351	DI 1S2076
D1308	2330351	DI 1S2076
D1309	2330351	DI 1S2076
D1310	2330351	DI 1S2076
D1311	2330351	DI 1S2076
D1312	2330351	DI 1S2076
D1313	2334581	DI ES1A

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
D1314	2334581	DI ES1A	D3302	23383211	DI 1SS270
D1315	2330351	DI 1S2076	D3303	23383211	DI 1SS270
D1316	2330351	DI 1S2076	D3305	23383211	DI 1SS270
D1319	2330351	DI 1S2076	D4401	23383211	DI 1SS270
D1401	2339691	DI SLH-56VC4F	D4402	23383211	DI 1SS270
D1402	2339691	DI SLH-56VC4F	D4601	23383211	DI 1SS270
D1403	2339692	DI SLH-56MC4F	D4602	23383211	DI 1SS270
D1405	23383211	DI 1SS270	D4603	23383211	DI 1SS270
D1406	23383211	DI 1SS270	D4604	23383211	DI 1SS270
D1407	23383211	DI 1SS270	D4605	23383211	DI 1SS270
D1408	23383211	DI 1SS270	D4606	23383211	DI 1SS270
D1409	23383211	DI 1SS270	D4607	23383211	DI 1SS270
D1410	23383211	DI 1SS270	D4608	23383211	DI 1SS270
D1411	23383211	DI 1SS270	D4609	2330771	DI U05C
D2001	23383211	DI 1SS270	D4610	2330771	DI U05C
D2002	23383211	DI 1SS270	D4611	2330771	DI U05C
D2004	23383211	DI 1SS270	D4612	2330771	DI U05C
D2005	23383211	DI 1SS270	D502	23383211	DI 1SS270
D2006	23383211	DI 1SS270	D505	23383211	DI 1SS270
D2007	23383211	DI 1SS270	D506	23383211	DI 1SS270
D2008	23383211	DI 1SS270	D601	23394911	DI AM01Z
D2010	23383211	DI 1SS270	D602	23373411	DI 1SS270A
D2011	23383211	DI 1SS270	D603	23383211	DI 1SS270
D2012	23383211	DI 1SS270	D604	23383211	DI 1SS270
D2013	23383211	DI 1SS270	D605	23383211	DI 1SS270
D2014	23383211	DI 1SS270	D607	23373411	DI 1SS270A
D2015	23383211	DI 1SS270	D608	23383211	DI 1SS270
D2016	23383211	DI 1SS270	D609	23383211	DI 1SS270
D2017	23383211	DI 1SS270	D610	23383211	DI 1SS270
D2018	23383211	DI 1SS270	D651	2338902	DI DFM1SA4
D2019	23383211	DI 1SS270	D652	2338902	DI DFM1SA4
D2020	23383211	DI 1SS270	D653	23383211	DI 1SS270
D2101	23383211	DI 1SS270	D7001	23383211	DI 1SS270
D2102	23383211	DI 1SS270	D7002	23383211	DI 1SS270
D2103	23383211	DI 1SS270	D7003	23383211	DI 1SS270
D2104	23383211	DI 1SS270	D7004	23383211	DI 1SS270
D2105	23383211	DI 1SS270	D7005	23383211	DI 1SS270
D2107	23383211	DI 1SS270	D7006	23383211	DI 1SS270
D2108	23383211	DI 1SS270	D701	2338902	DI DFM1SA4
D2109	23383211	DI 1SS270	D702	2338902	DI DFM1SA4
D2110	23383211	DI 1SS270	D703	2332152	DI GH3F
D2111	23383211	DI 1SS270	D704	2338902	DI DFM1SA4
D301	23383211	DI 1SS270	D705	2338902	DI DFM1SA4
D302	23383211	DI 1SS270	D706	2332152	DI GH3F
D303	23383211	DI 1SS270	D707	2339531	DI RG4A
D304	23383211	DI 1SS270	D709	23383211	DI 1SS270
D305	23383211	DI 1SS270	D710	2334581	DI ES1A
D309	23383211	DI 1SS270	D711	2332152	DI GH3F
D310	23383211	DI 1SS270	D725	23383211	DI 1SS270
D311	23383211	DI 1SS270	D726	23383211	DI 1SS270
D3301	23383211	DI 1SS270	D728	23383211	DI 1SS270

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SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
D801B	23383211	DI 1SS270	ZD0132	2339889	ZD HZS12C3
D801G	23383211	DI 1SS270	ZD0133	2339889	ZD HZS12C3
D801R	23383211	DI 1SS270	ZD0134	2339889	ZD HZS12C3
D802B	23383211	DI 1SS270	ZD0135	2339889	ZD HZS12C3
D802G	23383211	DI 1SS270	ZD0136	2339889	ZD HZS12C3
D802R	23383211	DI 1SS270	ZD0137	2339889	ZD HZS12C3
D9001	23394911	DI AM01Z	ZD0138	2339889	ZD HZS12C3
D9002	23394911	DI AM01Z	ZD101	2331833	ZD HZ11(A)3
D9003	23394911	DI AM01Z	ZD1101	2331845	ZD HZ12(B)2
D9004	23394911	DI AM01Z	ZD1102	2331845	ZD HZ12(B)2
D9006	23394911	DI AM01Z	ZD1301	2331866	ZD HZ5 C
⚠D901	2338313	DI RBV-406M	ZD1302	2331866	ZD HZ5 C
D906	2398611	DI 1SS254	ZD1303	2331866	ZD HZ5 C
D907	23385311	DI EG01C	ZD1304	2331866	ZD HZ5 C
D908	23394811	DI AS01Z	ZD151	2331804	ZD HZ6(B)1
D909	2338944	DI FML-G12S(F)	ZD2001	2339825	ZD HZS4B2
D910	2338932	DI FMG-G36S	ZD2002	2331849	ZD HZ-12(C3)
D911	23383211	DI 1SS270	ZD2101	2335461	ZD HZ24L-2
D926	2338944	DI FML-G12S(F)	ZD2102	2335461	ZD HZ24L-2
D927	2338944	DI FML-G12S(F)	ZD2103	2335461	ZD HZ24L-2
D928	2338944	DI FML-G12S(F)	ZD2104	2335461	ZD HZ24L-2
D929	23383211	DI 1SS270	ZD2105	2335461	ZD HZ24L-2
ZD0101	2331834	ZD HZ-11 B1	ZD2106	2335461	ZD HZ24L-2
ZD0102	2331804	ZD HZ6(B)1	ZD2107	2335461	ZD HZ24L-2
ZD0103	2331799	ZD HZ5(C)3	ZD2108	2335461	ZD HZ24L-2
ZD0104	2339889	ZD HZS12C3	ZD2109	2335461	ZD HZ24L-2
ZD0105	2339889	ZD HZS12C3	ZD2110	2335461	ZD HZ24L-2
ZD0106	2339889	ZD HZS12C3	ZD301	2331781	ZD HZ-4(A)1
ZD0107	2339889	ZD HZS12C3	ZD4401	2331154	ZD HZ12(A)/(B)/(C)
ZD0108	2339889	ZD HZS12C3	ZD4402	2331154	ZD HZ12(A)/(B)/(C)
ZD0109	2339889	ZD HZS12C3	ZD4403	2334283	ZD RD24EB2
ZD0110	2339889	ZD HZS12C3	ZD4501	2331833	ZD HZ11(A)3
ZD0111	2339889	ZD HZS12C3	ZD4506	2331849	ZD HZ-12(C3)
ZD0112	2339889	ZD HZS12C3	ZD4507	2331849	ZD HZ-12(C3)
ZD0113	2339889	ZD HZS12C3	ZD4508	2331849	ZD HZ-12(C3)
ZD0114	2339889	ZD HZS12C3	ZD4509	2331849	ZD HZ-12(C3)
ZD0115	2339889	ZD HZS12C3	ZD4510	2331849	ZD HZ-12(C3)
ZD0116	2339889	ZD HZS12C3	ZD4511	2331849	ZD HZ-12(C3)
ZD0117	2339889	ZD HZS12C3	ZD4512	2331849	ZD HZ-12(C3)
ZD0118	2339889	ZD HZS12C3	ZD4601	2331154	ZD HZ12(A)/(B)/(C)
ZD0119	2339889	ZD HZS12C3	ZD4602	2331154	ZD HZ12(A)/(B)/(C)
ZD0120	2339889	ZD HZS12C3	ZD4603	2331154	ZD HZ12(A)/(B)/(C)
ZD0121	2339889	ZD HZS12C3	ZD4604	2331154	ZD HZ12(A)/(B)/(C)
ZD0122	2339889	ZD HZS12C3	ZD4605	2331154	ZD HZ12(A)/(B)/(C)
ZD0123	2339889	ZD HZS12C3	ZD4606	2331154	ZD HZ12(A)/(B)/(C)
ZD0125	2339889	ZD HZS12C3	ZD501	2331827	ZD HZ9(C)1
ZD0126	2334122	ZD RD5.1EB1	ZD502	2331827	ZD HZ9(C)1
ZD0127	2334312	ZD RD33EB1	ZD503	2331827	ZD HZ9(C)1
ZD0128	2339889	ZD HZS12C3	ZD601	2331827	ZD HZ9(C)1
ZD0129	2339889	ZD HZS12C3	ZD602	2331827	ZD HZ9(C)1
ZD0131	2339855	ZD HZS7B2	ZD7001	2331828M	ZD HZ9-C2

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SYMBOL NO.	PARTS NO.	DESCRIPTION
ZD7002	2331849	ZD HZ-12(C3)
ZD7003	2331827	ZD HZ9(C)1
ZD7004	2331849	ZD HZ-12(C3)
ZD7005	2331806	ZD HZ6(B)3
ZD7006	2331785	ZD HZ4B2
ZD709	2339801M	ZD HZS2B1TA
⚠ZD710	2335461	ZD HZ24L-2
ZD711	2335461	ZD HZ24L-2
ZD712	2334324M	ZD RD36EB3
ZD713	2339889	ZD HZS12C3
ZD714	2339889	ZD HZS12C3
ZD801B	2331827	ZD HZ9(C)1
ZD801G	2331827	ZD HZ9(C)1
ZD801R	2331827	ZD HZ9(C)1
ZD802B	2331827	ZD HZ9(C)1
ZD9001	2331844	ZD HZ12(B)1
ZD9002	2331844	ZD HZ12(B)1
ZD903	2334324M	ZD RD36EB3
ZD904	2334243	ZD RD16E(B2)
ZD906	2339031	ZD HZS6C1L TA
ZD910	2331807	ZD HZ6(C)1
ZD911	2331815	ZD HZ7(B)2
ZD912	2334304	ZD RD30EB3
ZD913	2334283	ZD RD24EB2
TRANSFORMERS		
⚠T701	2260291	HOLIZONTAL DRIVE TRANSFORMER
⚠T702	2435462	FLYBACK TRANSFORMER
⚠T703	2272762	SPC TRANSFORMER
⚠T9001	2213993	POWER TRANSFORMER
⚠T902	2214472	SWITCHING TRANSFORMER
FUSES		
⚠F9001	2721053	UL FUSE 5A
⚠F903	2721052	UL FUSE 4A
⚠F904	2721052	UL FUSE 4A
⚠F905	2721051	UL FUSE 1.6A

SYMBOL NO.	PARTS NO.	DESCRIPTION
COMPOUND COMPONENTS		
CP1401	2381122	REMOTE CONTROL RECEIVER
⚠CP9001	2790291	COMPOUND COMPONENT
⚠CP903	2790291	COMPOUND COMPONENT
⚠CP904	2790291	COMPOUND COMPONENT
MF3301	2163971	CERAMIC FILTER
MF701	2786683	CERAMIC OSCILLATOR
M501	2372161	CHIP BOARD BX6410
COILS		
DL501	2794201	DELAY LINE
DL502	2791101	DELAY LINE
L0101	2164362	TUNING COIL
L0102	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0103	2122934	LAL AXIAL COIL 2.2 MICRO H
L0104	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0105	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0106	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0107	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0108	2122236	LA AXIAL COIL 5.6 MICRO H
L0109	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0110	2122956	LA AXIAL COIL 100 MICRO H ±10%
L0111	2122956	LA AXIAL COIL 100 MICRO H ±10%
L1291	2272753	FOCUS CHOKE COIL
L2101	2120484	FILTER COIL
L2102	2120484	FILTER COIL
L2103	2120484	FILTER COIL
L2104	2120484	FILTER COIL
L3001	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3002	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3003	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3004	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3005	2122247	LA AXIAL COIL 39 MICRO H
L301	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3301	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3302	2122956	LA AXIAL COIL 100 MICRO H ±10%
L3303	2166121	TRAP COIL 3.5MHZ
L501	2141148	1H DL COIL
L502	2122939	LA AXIAL COIL 5.6 MICRO H
L503	2122951	LA AXIAL COIL 39 MICRO H ±10%
L701	2121181	FILTER COIL
L703	2124181	CHOKE COIL
L706	2124521	RENEARLITY COIL
L707	2220583	COIL
L708	2120482	FILTER COIL 100 MICRO H ±10%
L709	2122094	FIXED COIL

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SYMBOL NO.	PARTS NO.	DESCRIPTION
L710	2120482	FILTER COIL 100 MICRO H ±10%
L711	2123462	FERRITE BEADS CORE
L802B	2122255	LA AXIAL COIL 150 MICRO H
L802G	2122255	LA AXIAL COIL 150 MICRO H
L802R	2122255	LA AXIAL COIL 150 MICRO H
⚠L9001	2121674	LINE FILTER COIL
⚠L9002	2121674	LINE FILTER COIL
⚠L9003	2272292	LINE FILTER
⚠L9004	2122653	FERRITE CORE
⚠L9005	2123462	FERRITE BEADS CORE
⚠L904	2121674	LINE FILTER COIL
⚠L905	2121674	LINE FILTER COIL
L906	2123462	FERRITE BEADS CORE
L907	2122653	FERRITE CORE
L908	2123462	FERRITE BEADS CORE
L909	2122653	FERRITE CORE
L910	2122653	FERRITE CORE
L911	2123462	FERRITE BEADS CORE
L913	2123462	FERRITE BEADS CORE
L914	2123462	FERRITE BEADS CORE
L915	2123462	FERRITE BEADS CORE
L916	2122653	FERRITE CORE
L917	2122653	FERRITE CORE
L918	2122653	FERRITE CORE
L919	2122653	FERRITE CORE
L920	2121676	FIXED COIL
L922	2161152	FILTER COIL
L926A	2161152	FILTER COIL
L929	2121674	LINE FILTER COIL
L952	2161152	FILTER COIL
L953	2161152	FILTER COIL
L955	2161152	FILTER COIL
L956	2161152	FILTER COIL
L957	2161152	FILTER COIL
L958	2161152	FILTER COIL
L960	2122653	FERRITE CORE
L961	2122653	FERRITE CORE
L964	2122653	FERRITE CORE
L965	2122653	FERRITE CORE
L969	2123462	FERRITE BEADS CORE
L970	2123462	FERRITE BEADS CORE
L971	2123462	FERRITE BEADS CORE
L975	2123462	FERRITE BEADS CORE
L976	2123462	FERRITE BEADS CORE
L978	2161152	FILTER COIL
L981	2161152	FILTER COIL
L982	2122956	LA AXIAL COIL 100 MICRO H ±10%
L983	2123462	FERRITE BEADS CORE

SYMBOL NO.	PARTS NO.	DESCRIPTION
SWITCH		
S1401	2631861	PUSH SWITCH
S1402	2632937	8P TACT SWITCH
S1403	2633173	TACT SWITCH
S1404	2632341	SUJ LOCK SW
S1405	2983111	3P JACK WITH S TERMINAL
S2001	2620281	SLIDE SWITCH
S301	2621051	SLIDE SWITCH
MISCELLANEOUS		
	3725352	BOARD HOLDER
	8815124	WASHER, LOCK 3MM
	4526351	SPACER
	3265511	KNOB STEREO
	3789301	PANEL HOLDER PIN
	4298631	PIN HOLDER
	3794331	PRESET DRIVER
	3483211	SPEAKER COVER(CU4600B)
	4321071	SPEAKER COVER(CU5000K)
	8815126	LOCKING WASHER 4
	4304281	HEAT SINK NET COVER
	3761421	PLASTIC RIVET 4X8
	3504571	SPEAKER PAD(HCPA)
	4518771	3X10 TAPPING SCREW WITH SPRING WASHER (CU4600B Only)
	4288066	UPPER MIRROR(CU4600B only)
	4524911	HEXAGON FLANGEHEAD 4X12
	4520771	4X18 TAPPING SCREW WITH WASHER (CU5000K Only)
	4349031	FRAME METAL(L)
	4349021	FRAME METAL(U)
	4349011	FRAME COVER METAL
	4349042	FRAME METAL V2
	4527631	4X18 TAPPING SCREW
A06	2876501	VP8X CONVER CORRECTION P.W.B ASS (CU4600B Only)
BP501	2165811	B.P.FILTER SBP4370
E	8815126	LOCKING WASHER 4
EAD	2663829	7P MINI-PLUG PIN
EAD	2663829	7P MINI-PLUG PIN
⚠EANT	2427365	ANTENNA SWITCH ASS'Y ASB-311E-
EAT	2663821	2P PLUG PIN
EBC	2771894	FERRITE BEADS CORE 006
ECA	2663825	6P MINI-PLUG PIN
ECA	2663925	6P SUB MINI-PLUG PIN
ECB	2661753	PIN PLUG WITH BASE
ECD	2663822	3P SUB MINI PLUG PIN
ECG	2661753	PIN PLUG WITH BASE
ECR	2661753	PIN PLUG WITH BASE

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SYMBOL NO.	PARTS NO.	DESCRIPTION
ECS	2663926	8P SUB MINI PLAG PINH.
EFF	2661751	PLUG PIN WITH BASE
EIE	2663821	2P PLUG PIN
EP	2661756	1P PLUG PIN WITH BASE
EP31	2661756	1P PLUG PIN WITH BASE
ERR	2663829	7P MINI-PLUG PIN
ERR	2663829	7P MINI-PLUG PIN
ESF	2663823	4P PLUG PIN
ESF	2663823	4P PLUG PIN
ESG	2663827	10P PLUG PIN
ESG	2663827	10P PLUG PIN
ESJ	2661752	PLUG PIN
ESJ	2661752	PLUG PIN
ESR	2661944	CONNECTOR
ESV	2663827	10P PLUG PIN
ESV	2663927	10P SUB MINI PLUG PIN
ETP	2661751	PLUG PIN WITH BASE
ETS	2663821	2P PLUG PIN
EV1	2661756	1P PLUG PIN WITH BASE
⚠E1	2443103	DEFLECTION YOKE V80-6.7ST(R)(B)
E1	2983082	0P PINJACK WITH S TERMINAL
E1B	4520883	M3X12 SCREW WITH WASHER
⚠E1G	2443104	DEFLECTION YOKE V80-6.7ST(G)
E2	2691805	ANODE COVER
E2	2983091	9P PINJACK WITH SWITCH
E2	4159411	3X8 KNURL TAPPING SCREW
E2	4518772	3X12 TNE
⚠E202	2982471	300-75 VHF ADAPTER
E3	3810831	MAGNET SPACER
E3	8815124	WASHER,LOCK 3MM
E301	2970901	REMOTE CONTROL TRANSMITTER CLU-790GR (HCPA)(HSCC MD)
E4	2774961	BEAM ARIMENT MAGNET
E4	4520881	M3X8 SCREW WITH WASHER
E4PT	2673021	JAK-4P PUSH TERMINAL
E5	2774973	FOCUS MAGNET
⚠E707	2460251	HV BOX
⚠E801B	2953344	CRT SOCKET
⚠E801G	2953343	CRT SOCKET
⚠E801R	2953343	CRT SOCKET
⚠E9001	2745311	AC POWER CORD
E9002	3772201	AC CORD HOLDER
⚠E9004	3739671	CORD HOLDER
E9901	2721351	FUSE HOLDER
⚠N	2784342	CONDENSER COVER
N	3720501	LEAD CLAMP
⚠NA	2784342	CONDENSER COVER
ND	2721351	FUSE HOLDER
ND901N	4520883	M3X12 SCREW WITH WASHER
ND909N	4520881	M3X8 SCREW WITH WASHER
ND910N	4520883	M3X12 SCREW WITH WASHER
ND926N	4520881	M3X8 SCREW WITH WASHER
ND927N	4520881	M3X8 SCREW WITH WASHER
ND928	4520881	M3X8 SCREW WITH WASHER
NF777N	4518771	3X10 TAPPING SCREW WITH SPRING WASHER
NF902N	4518771	3X10 TAPPING SCREW WITH SPRING WASHER
NI601	8815124	WASHER, LOCK 3MM
NI601A	4520883	M3X12 SCREW WITH WASHER
NI601C	4518772	3X12 TNE
NQ710N	4520881	M3X8 SCREW WITH WASHER
NQ777N	4520883	M3X12 SCREW WITH WASHER
NQ902N	4520883	M3X12 SCREW WITH WASHER
NQ904N	4520881	M3X8 SCREW WITH WASHER
NO001	3731081	PURSE LOCK 10
NO002	3731081	PURSE LOCK 10
N1	3744171	LEAD CRAMP
N1	3763752	SK BINDER
N101	3763751	SK BINDER
N101	3763751	SK BINDER
N105	4159425	3X16 TAPPING SCREW
N1103	4520883	M3X12 SCREW WITH WASHER
N1104	4518772	3X12 TNE
N1106	8811114	3 SPRING WASHER
N1107	4159427	3X10 TAPPING SCREW WITH WASHER
N1110	8815124	WASHER, LOCK 3MM
N1111	4520883	M3X12 SCREW WITH WASHER
N1115	3734391	PWB SPACER 8
N151	4526322	M8X10 SCREW
N155	4524911	HEXAGON FLANGEHEAD 4X12
N157	4524913	HEXAGON FLANGEHEAD 4X12 R
N161	2781443	EARTH SPRING
N2	8815126	LOCKING WASHER 4
N2101	3734531	LEAD CLAMP(CU5000K only)
N2102	3734531	LEAD CLAMP(CU5000K only)
N214	4526102	4X18 SCREW
N217	4526101	4X12 SCREW
N408	2781443	EARTH SPRING
N801	3763751	SK BINDER
N803	4520881	M3X8 SCREW WITH WASHER
N9001	2784342	CONDENSER COVER
N9002	2784342	CONDENSER COVER
PGND	2661756	1P PLUG PIN WITH BASE
PMB	2665272	4P PLUG PIN WITH BASE
PMG	2665272	4P PLUG PIN WITH BASE
PMR	2665272	4P PLUG PIN WITH BASE
⚠RL9001	2640336	RELAY
SG801B	2340037	SPARK GAP
SG801G	2340037	SPARK GAP
SG801R	2340037	SPARK GAP
SG802B	2340037	SPARK GAP
SG802G	2340037	SPARK GAP
SG802R	2340037	SPARK GAP
⚠SP401	2414201	SPEAKER 120DG(HCPA)(CU4600B)

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SYMBOL NO.	PARTS NO.	DESCRIPTION
⚠SP401	2412921	SPEAKER 160MM(CU5000K)
⚠SP402	2414201	SPEAKER 120DG(HCPA)(CU4600B)
⚠SP402	2412921	SPEAKER 160MM(CU5000K)
⚠SP403	2410954	SPEAKER 50DGB(HCPA)
⚠SP404	2410954	SPEAKER 50DGB(HCPA)
TH2101	2340552	THERMISTOR
U101	2427262	FE TUNER V8-A57FT
X0101	2163971	CERAMIC FILTER
X501	2791501	CRYSTAL HC-49/U

MECHANICAL PARTS (1/3) (Refer to page 65)

A-1	3816241	SCREEN FRAME(H)(CU4600B)
A-1	3708033	SCREEN FRAME(H)(CU5000K)
A-2	3709963	SCREEN ASS'Y(HCPA)(CU4600B)
A-2	3709965	SCREEN ASS'Y(HCPA)(CU5000K)
A-3	3816242	SCREEN FRAME(V)(CU4600B)
A-3	3708034	SCREEN FRAME(V)(CU5000K)
A-4	4520771	4X18 TAPPING SCREW WITH WASHER
A-5	3815694	SIDE PANEL(L)
A-6	3815693	SIDE PANEL(R)
A-7	4524911	HEXAGON FLANGEHEAD 4X12
A-8	4517513	3X16 TAPPING SCREW(BLACK)
A-9	3462207	BACK COVER (HCPA)
A-10	3811971	BACK COVER DOOR
A-11	3191461	50 FRONT SURF MIRROR (CU5000K Only)
A-12	4618172	RUBBER SPACER
A-13	4524912	HEXAGON FLANGEHEAD 4X16
A-14	3462783	BACK BOARD ASS'Y(L)(HCPA)(CU4600B)
A-14	3462782	BACK BOARD ASS'Y(L)(HCPA)(CU5000K)
A-15	3761421	PLASTIC RIVET 4X18
A-16	3727972	HOLDER-AC LINE CORD
A-17	3119111	CABINET ASS'Y(HCPA)(CU4600B)
A-17	3119101	CABINET ASS'Y(HCPA)(CU5000K)
A-18	4336491	CASTER METAL
A-19	3789291	PANEL HOLDER
A-20	8420472	FRONT BOARD(HCPA)
A-21	3462802	BACK BOARD(R)(HCPA)

MECHANICAL PARTS (2/3) (Refer to page 66)

B-1	4520771	4X18 TAPPING SCREW WITH WASHER
B-2	4519512	4X16 TAPPING SCREW
B-3	3815401	CONTROL DOOR
B-4	3785043	PUSH LOCK A
B-5	3811195	POWER KNOB
B-6	3332452	90 KNOB SPRING
B-7	3815383	CONTROL PANEL ASS'Y
B-8	4524911	HEXAGON FLANGEHEAD 4X12
B-9	4329271	WASHER(F)
B-10	4522901	NUT
B-11	3815982	TERMINAL BOARD ASS'Y
B-12	4519503	3X12 TAPPING SCREW
B-13	4159427	3X10 TAPPING SCREW WITH WASHER
B-14	4519512	TAPPING SCREW 4X16 MM
B-15	3742021	LEAD HOLDER(CABINET)
B-16	4159425	3X16 TAPPING SCREW WITH WASHER
B-17	4515486	4X22 R HEAD TAPPING SCREW

MECHANICAL PARTS (3/3) (Refer to page 67)

C-1	4524911	HEXAGON FLANGEHEAD 4X12
C-2	4520771	4X18 TAPPING SCREW WITH WASHER
C-3	8813126	4 SPRING WASHER
C-4	8811116	WASHER M4
C-5	3708413	LENS SASS SP-K(R)(G)(CU4600B)
C-5	3708411	SP LENS SASS(R)(G)(CU5000K)
C-6	3708414	LENS SASS SP-K(B)(CU4600B)
C-6	3708412	SP LENS SASS(B)(CU5000K)
⚠C-7	4861564	LENS CRT B ASS'Y(180CGB22 R) (HCPA)(HSCC MD)
⚠C-8	4861565	LENS CRT B ASS'Y(180CGB22 G) (HCPA)(HSCC MD)
⚠C-9	4861566	LENS CRT B ASS'Y(180CGB22 B) (HCPA)(HSCC MD)
C-10	3732521	LEAD HOLDER
C-11	3761011	PWB HOLDER F
C-12	3727702	PWB PLASTIC HOLDER
C-13	3725352	BOARD HOLDER

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